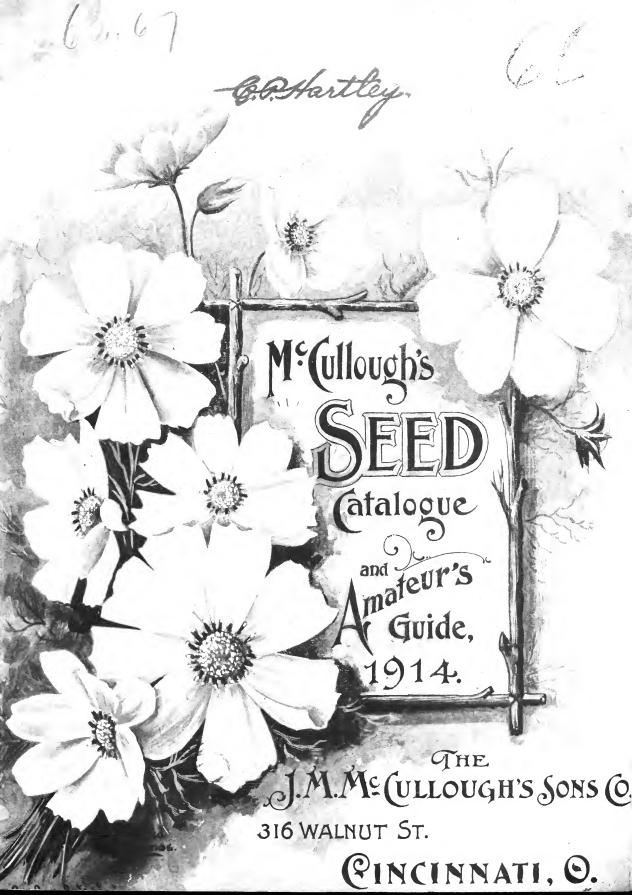
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INSTRUCTIONS TO PURCHASERS

AS TO POSTAGE, ETC.

Seeds, Cuttings, Bulbs, Roots, Scions and Plants can not be sent at Parcel Post rates, but will be permitted in the Parcel Post Mails under regulations as to size and weight applicable to other Parcel Post Packages, regardless of distance, at the following rates:

ALL SEEDS IN PACKETS, OUNCES and QUARTER POUNDS only, are sent free by Mail, at prices quoted: Half-Pounds, Pounds, Pints, Quarts and larger quantities, if to be sent by Mail, postage must be added to prices quoted at the rate of ten cents per pound, ten cents per pint and fifteen cents per quart.

Order Early.—It will greatly facilitate shipments if orders are sent early. We aim to send off all orders the day received. Will make special price to those who use seed in quantity. Write for estimate.

Send the money with the Order.—Postal Note, Postoffice Order, Registered Letter, Express Money Order, or Draft on Cincinnati or New York.

In view of the fact that the express companies make a special low rate on small packages of Seeds, Plants and Bulbs, we would suggest that patrons remit by Express Money Orders, which can be obtained at nearly all the express offices. United States Postage Stamps will be received for small amounts; be exceedingly careful about the least moisture getting on them when remitting, as they sometimes reach us so stuck together as to be almost worthless.

We do not send C.O.D.—Everything being plainly priced, the return charges on money is an unnecessary expense.

Should you change your address, we will esteem it a favor if you will notify us, so we can forward our Catalogue with regularity; if you receive two Catalogues of the same kind, please hand one to some friend who has a garden.

Should an error occur, we desire to be promptly informed, and will take pleasure in making satisfactory corrections.

Write your Name and Address distinctly and in full; please use the Order Sheet and Envelope inserted in this Catalogue.

About Warranting Seeds.—We have often been asked if we "guarantee or warrant our Seeds." We beg to state plainly we do not, for the reason that practical experience has assured us of the fact that crops may fail, no matter how fresh or pure the seed sown may be. We trust that our customers will fully realize that it is to our interest to send none but the very best quality of Seeds. It would be folly to do otherwise, unless we wanted to sacrifice our good reputation for selling Reliable Seeds, which we are constantly striving to extend.

To secure success, however, it is necessary that the customer should do his part well, or our good seeds will be ruined. With the best of management and with good seeds there will be an occasional unaccountable failure. The best of gardeners sometimes fail, and try again with the same seed with good results.

We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

With this issue of our annual Catalogue and Amateurs' Guide we enter upon the 76th year since the founding of our business by the late Mr. J. M. McCullough.

THE J. M. McCULLOUGH'S SONS CO.

ALBERT McCULLOUGH, Pres.

H. B. McCULLOUGH, Sec'y.

TRADE MARK

ESTABLISHED 1838

Established 1838—Incorporated 1904

SALESROOMS AND OFFICES:

No. 316 Walnut Street

Between Third and Fourth Streets

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SEED CATALOGUE

ORDER SHEET.

THE J. M. McCULLOUGH'S SONS CO., Cincinnati, O. 316 Walnut Street, Between Third and Fourth Streets.

Name of Article Wanted		Price Quantity	Name of Article Wanted	Duentity
eparate sheet from your order.	ters on a s	ways write let	For further particulars and conditions of sale, see cover. More order blanks will be sent on request. Always write letters on a separate sheet from your order.	
· Flower Seeds by Number.	icle. Orde i	rice of each arti	per pint and 15c per quart for postage. Please use this order sheet for orders only, and carry out catalogue p	10c
by mail at prices quoted; half pounds, pounds, lering CORN, PEAS or BEANS be sure to add	re sent free When orc	er pounds, an	red in PA(o inia
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Date191		and in full.	VERY IMPORTANT.—Write your name and address distinctly and in full.	VEF

INSTRUCTIONS TO PURCHASERS

SEED CATALOGUE



SPECIAL RATES ON VEGETABLE SEEDS IN PACKETS.

To induce our patrons to form clubs to purchase Seeds in quantity, we will offer the following liberal discounts on on Vegetable Seeds Packets. Mai postage paid. Mailed For 25c select 6 five cent packages of Vegetable Seeds.

For 50c select 13 five cent packages of Vegetable Seeds. For \$1.00 select Seeds in packages (no ounces, remember), to the amount of \$1.30.

For \$2.00 select Seeds in packages (no ounces, remember), to the amount of \$2.65.

For \$3.00 select Seeds in packages (no ounces, remember), to the amount of \$4.00.

These prices do not refer to Seeds offered by weight or measure, but to Seeds packets only.

ARTICHOKE.

The Globe Artichoke is cultivated for its flowerheads, which are cooked like Asparagus. Plants set in any good soil, with slight covering in winter, will remain in bearing several years. Seeds may be sown indoors and plants potted same as the Tomato and set out in May, or can be sown in hills outside, and thinned out to one plant in hill. Large Green Globe. 25c oz.; 90c ½ lb....5c pkt.

ARTICHOKE ROOTS.

Jerusalem Artichoke. Distinct from the Globe, and propagated by and for its tubers. Plant in rows 3 feet apart and 12 to 14 inches apart in the row, and cultivate occasionally. Let tubers remain in the ground until needed. Used for pickling and for feeding stock. Price of tubers, shipped at buyer's expense: Qt., 15c; peck, 60c; bu., \$2.00. (2 lbs. by mail, 50c.)

ASPARAGUS SEED.

(Spargel, Ger.)

One Ounce Will Produce About 400 Plants.
CULTURE.—Any good loamy, not too weedy, garden land is good for growing the plants. Sow in rows 12 to 15 inches apart, as early in spring as the ground is in fit condition, and give good cultivation; also thin the plants to stand 2 or 3 inches

Barr's Mammoth. A fine, large-stemmed green variety. Oz., 10c; ¼ lb., 25c........5c pkt.

ASPARAGUS SEED-Continued.

second page of cover for pos by the pound, pint and quart.

Palmetto. An early prolific and very desirable variety. Oz., 10c; ¼ lb., 25c......5c pkt.

Columbian Mammoth White. Large, white stalks. Oz., 10c; ¼ lb., 25c.......5c pkt.

Conover's Colossal. Large and productive. Oz., 10c; ¼ lb., 20c.......5c pkt.

ASPARAGUS ROOTS.

Deep, warm, rich, loamy soil, deeply and thoroughly stirred, is required for permanent bed. Use manure and fertilizers freely. Make furrows 2 or 4 feet apart and 8 to 10 inches deep. Set the two-year-old roots 18 to 24 inches apart in the bottom of furrows and cover lightly at first. Gradually fill in with soil and old compost. In early spring fork or plow the bed shallow and carefully, or pulverize the surface by harrowing. Give clean cultivation until fall; then cover with manure or compost. Second season after planting hill up the rows, especially for blanched "grass," and cut sparingly for use. After that the bed will give full crops. In the fall, as soon as the tops are ripe and yellow, they should be cut and burned. Two-year-old roots will insure the best and earliest results.

Strong two-year-old Roots of the following varieties—buyer paying transit:
Argenteuil, \$1.00 per 100; \$2.00 per 250; \$7.00 per

Barr's Mammoth, \$1.00 per 100; \$2.00 per 250; \$7.00

per 1000. **Columbian Mammoth White, \$1.00** per 100; **\$2.00** per 250; **\$7.00** per 1000.

Conover's Colossal, \$1.00 per 100; \$1.75 per 250; \$6.00 per 1000.

Palmetto, \$1.00 per 100; \$2.00 per 250; \$7.00 per 1000.

Norwood Stringless Green Pod.

DWARF SHELL BEANS.

1.75 pk. 5c pkt. s a dry

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

BEANS, DWARF OR BUSH.

Beans are somewhat tender, but it often pays to take some risks. Plant in warm, loamy soil at the beginning of settled, warm weather in spring, and at intervals for succession until August. Rows may be made 2 feet apart, and the Beans planted a few inches apart in the drills, or 3 or 4 Beans in hills 6 to 8 inches apart. Cultivate and hoe frequently, always, however, when the vines are perfectly dry. In hoeing draw the soil up towards the rows or plants. For String Beans, gather the pods clean as soon as fit for use. The plants will remain all the longer in bearing. One quart will plant 100 feet of drill.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

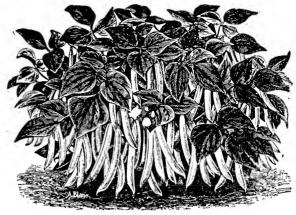
GREEN PODDED VARIETIES.



BEANS. DWARF OR BUSH-Continued.

WAX OR YELLOW-PODDED VARIETIES.

Postage must be added if wanted by mail. See postal rates, second page of cover.



Black Wax Improved. Very early and prolific; pods round, full and stringless. Pint, 15c; qt., 25c; peck.

Black Wax Pencil Pod. Pods long, pencil-like, very tender and brittle. Color rich dark yellow. It remains in good picking condition for a long season. Very prolific. Pint, 15c; qt., 25c; peck, \$1.75................................5c pkt.

Special prices given to Market Gardeners and others who use Seeds in large quantities.

POLE BEANS.

The Pole or Running varieties are tender and should be sown two weeks later than Bush Beans. They succeed best in sandy loam, which should be liberally enriched with manure. Form hills 3 to 4 feet apart; plant 6 to 10 beans in a hill, 2 inches deep, leaving space in center for the pole. When well started, they should be thinned to from 4 to 6 plants in a hill. One luart will make 100 to 200 hills, according to size of the beans.

Postage must be added if wanted by mail. See postal rates. second page of cover.

hort, or Corn Hill. Used among corn: the best for this section. Pint, 15c; qt., 25c; peck, \$1.75......5c pkt.

Wife. An excellent late green podded pole bean. Pods of medium dark green color; broad, thick, very fleshy and entirely stringless. The pods remain green and tender until nearly ripe. Beans are white, and excellent as shell beans for winter use. Pint, 15c; qt., 25c; peck, \$1.75.

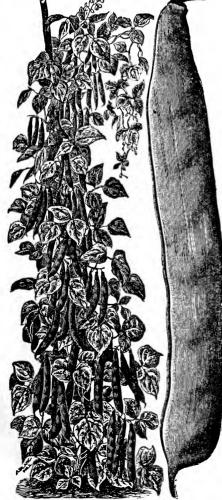
White Creaseback. A good grower and very productive. Pods 5 to 6 inches long, perfectly round, with a crease in the back. The pods are stringless, fleshy and of good quality. Pint, 15c; qt., 25c; peck, \$1.75......5c pkt.

Sickle. Somewhat like the Kentucky Wonder, but has a nice white bean when dry and makes an excellent shell bean for winter. Very popular in the South. Pint, 15c; qt., 25c.................................5c pkt.

White Dutch Case-Knife. Grown for green or shell beans. Pint, 15c; qt., 25c; peck, \$1.75................5c pkt.

Golden Cluster Wax. The pods are from 6 to 8 inches long, stringless, very tender and of delicate flavor. Pint. 20c; qt., 35c.....5c pkt.

Scarlet Bunner. An ornamental climber. Bright scarlet flowers. Pint, 25c.....5c pkt. BUSH AND POLE LIMA BEANS. (See next page.)



Lazy Wife Pole Bean.

LIMA BEANS.

Postage must be added if wanted by mail; see postal rates, second page of cover.

Select land that is especially warm, rich, and well supplied with vegetable fibre or humus. Plant as soon as the soil has become warm in the spring. Plant bush varieties in rows two feet apart and give to each plant six inches space in the row.

Plant pole varieties in hills about three feet apart, and one to two inches deep, using five or six seeds to each hill, and set a pole firmly in the centre. Manure liberally in the hill with well-composed fertilizer. Thin the plants, leaving three in each hill. Many cultivators consider it best, in planting Limas and other flat beans, to place the eye down, claiming in this way that they will germinate more quickly. Lima Beans for early use may be grown in frames and transplanted.

DWARF OR BUSH LIMA.

e's Bush Lima. The true bush form of the old, large Lima Pole Bean. It grows vigorously to a height of 18 to 20 inches, forming a circular bush, 2 or 2½ feet in diameter, requiring no poles or stakes, yielding from 50 to 100 fine pods, similar to those grown on the large white Lima Bean; pt., 20c; qt., 35c; pk., \$2.00.......5c pkt. Burpee's Bush Lima.

Henderson's Bush Lima. For convenience and practical use in the home garden it is a really good thing. It grows without the aid of poles, in compact bush form, about 18 inches high. Pt., 20c; qt., 35c; pk., \$2.00......5c pkt.



Burpee's Bush Lima

POLE LIMA.

Postage must be added if wanted by mail; see postal rates, second page of cover.

Seibert's Early Lima. The earliest of all the large Limas. Vine is hardy and vigorous, continues in bearing longer than any other, fine quality; pt., 20c; qt., 35c...............5c pkt.

BEETS-CATTLE AND SUGAR. MANGEL-WURZELS.

All Seeds in Packets, Ounces and Quarter Pounds only, are sent free by mail, at prices quoted; Haif-Pounds and larger quantities, if to be sent by mail, postage must be added; see postal rates, second page of cover.

An ever increasing acreage is being planted for stock beets because of the wonderful results from feeding them. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Sow in rows of 2½ to 3 feet apart as soon as the ground can be thoroughly worked. Cover seed about 1½ inches, making ground firm over the seed. When 4 inches high, thin to 8 inches apart. Six pounds sow one acre.

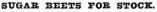
seed. When 4 inches high, thin to 8 inches apart. Six pounds sow one acre.

Mammoth Long Red. Roots of large size and excellent quality; ¼ lb., 15c; 1 lb., 35c; 10 lbs. \$3.00.

Yellow Globe. Of large size and globular form; very productive; ¼ lb., 15c; 1 lb., 35c; 10 lbs., \$3.00.

Red Globe. Large, red, oval; keeps well; large crops on shallow soil; ¼ lb., 15c; 1 lb., 35c; 10 lbs., \$3.00.

Golden Tankard. Bright yellow, large, handsome, heavy cropper, splendid quality; ¼ lb., 15c; 1 lb., 35c; 10 lbs., \$3.00.



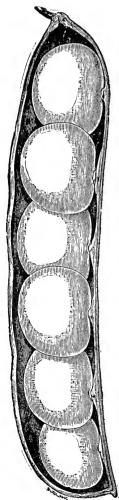
Sugar beets are not as heavy yielders as the Mangels but are of superior quality, containing a large amount of sugar. They are excellent for feeding cows, improving wonderfully the quantity and quality of the milk. Five to six pounds of seed required per acre.

Vilnorin's Improved. A medium stated white Sugar
Beet brought by the most careful selection to the
highest perfection, both in shape and color of
roots. Greatly esteemed by sugar manufacturers.,
¼ lb., 15c; 1 lb., 35c; 10 lbs., \$3.00.

Lane's Imperial. One of the best for field culture;
early, large and productive; ¼ lb., 15c; lb., 35c;
10 lbs. \$3.00.

10 lbs., **\$3.00.**

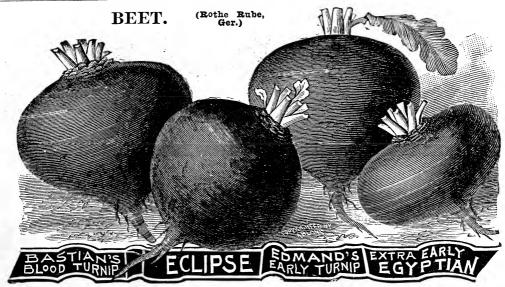
Table Beet—See opposite page. See postal rates, second page of cover.



McCullough's Extra Large Lima.



Long Red Mangel.



SPECIAL PRICES GIVEN TO MARKET GARDENERS AND OTHERS USING LARGE QUANTITIES OF SEED. SEND LIST OF WANTS AND GET ESTIMATE.

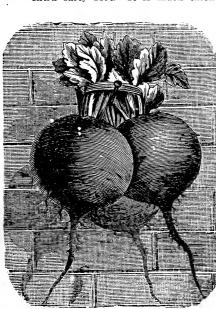
The soil which is best suited is that which is rather light and thoroughly enriched with manure. For an early supply sow in spring as soon as the ground becomes fit to work, in drills about one foot apart and one inch deep. For main crop, sow the first week in May, and for winter use, sow in June. When the plants have attained three or four leaves, thin out so they may stand five or six inches apart. Keep free from weeds by hand-weeding or hoeing. In October roots may be taken up and stored in the cellar, or in pits outside, like potatoes, care being taken that they are not bruised or injured in the process. One ounce will sow 50 feet of drill; 5 to 6 pounds for an acre.

All Seeds in Packets, Ounces and Quarter Pounds are sent free by Mail, at prices quoted.



(Spargle Kohl, Ger.)
Sow in beds middle of spring, transplant and cultivate the same as cabbage.
Early Large White.
Early Purple Cape.

BRUSSELS SPROUTS.



McCullough's Norwood Beet.

NOTE.-Mc-Cullough's "Louisville" Cabbage is so well known and so much sought after that many firms are offering cheap stocks. We have tested many of these and find some entirely untrue and others of inferior strains. Be sure to get our highly selected. genuine type direct from us.

CABBAGE

CULTURE .-- For plants of the earliest sorts seed in January or February under glass, and prick out in flats or frames about inches apart each way. Transplant to open ground as soon in spring as the land can be properly prepared. A rich, warm, fibrous loam is best. Have the plants



McCullough's Early Louisville Drumhead.

in the rows 20 to 24 inches apart, and rows at least 2 feet apart. Give thorough cultivation and irrigate in dry weather if practicable. Protect the ravages of cutworm maggot and green worm. A little nitrate of soda applied around the plant is of great benefit. Potash application, such as wood ashes or muriate, may also do much good. For late Cabbage plants, sow seed in drills in open ground during April and May, and transplant in June and July, giving the plants more room than allowed for earliest Cabbages. Dusting with tobacco dust, insect powder, etc., or splashing with hot soapsuds, especially Fish Oil Soap solution, are good and safe remedies for some of the insect pests attacking plants of the Cabbage.

Sow one ounce for 2000 to 2500 plants; 5 ounces for one acre.

Early Jersey Wakefield. A leading early variety, and one of the best for private or market gardener's use; conical shape and good quality. Oz., 20c; 1/4 lb., 60c...5c pkt.

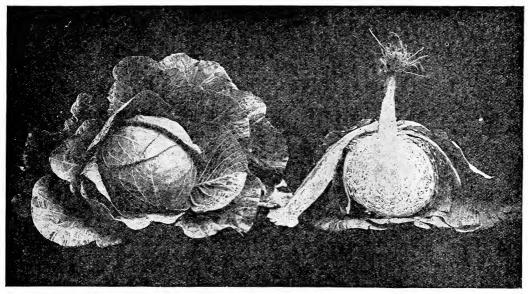
The Charleston, or Large Wakefield. Large, solid heads, of good quality, a few days later than Early Jersey Wakefield. Especially recommended for institutions and market gardeners. Oz., 20c; ½ lb., 60c....5c pkt.

Early Spring. This variety is nearly as early as the Jersey

Summer. A second early with large, solid, flattish heads, coming in a few days later than the Wakefield; a sure header. Oz., 20c; ½ lb., 60c......5c pkt. Early Summer.



Charleston Wakefield.



McCullough's Early Market.

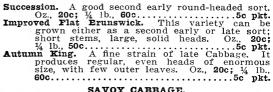
CABBAGE-(Continued.)

McCullough's Early Market.

McCullough's Premium Late Flat Dutch. A variety for winter market; has no superior. Heads large, round, solid, broad and flat on top. They open white and crisp, are tender and well-flavored. The best variety for keeping. Our stock has been carefully selected for several years. No better strain on the market. Oz., 15c; ¼ lb., 50c...........5c pkt.

Danish Ballhead (Danish Grown). Heads of good marketable size, averaging about 8 pounds, nearly round, solid and superior quality. As a keeper it excels all

This is a good n of late Flat Surehead. strain of late Flat Dutch, having great re-liability for heading. The heads grow large, and are of good texture. It is also a good keeping variety. Oz., 20c; ¼ lb., 60c..5c pkt.



SAVOY CABBAGE.

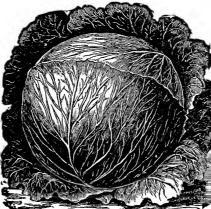
They are particularly adapted to private use, where quality rather than quantity is desired. Grown in fall and allowed to be touched by frost, it is one of the most delicious of all vegetables.

Early Dwarf Ulm Savoy. One of the finest flavored of the finest flavored sorts. Heads solid and with few outer leaves. Oz., 25c; ¼ lb., 80c.

5c pkt. can Drumhead Savoy. Heads large and very finely curled; short stalk American and compact grower; an excellent keeper. Far superior to the ordinary imported Drumhead Savoy. Oz., 20c; ¼ lb., 60c..........5c pkt.

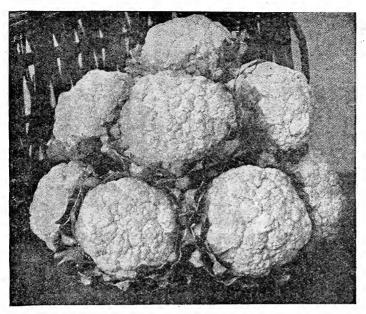
RED CABBAGE.

Mammoth



McCullough's Premium Flat Dutch.

All Seeds in Packets. Ounces and Quarter Pounds only are sent free by mail, at prices quoted; Half-Pounds and larger quantities if to be sent by mail, postage must be added to prices quoted at the rate of ten cents per pound.



McCullough's Earliest Dwarf Erfurt Cauliflower.

CAULIFLOWER.

(Blumenkohl, Ger.)

One Ounce of Seed for 2000 Flants.

CULTURE.—For early use, sow in hotbeds in January and February. When plants are large enough, transplant three inches apart in boxes or other hotbeds until time to plant out. If hardened off they are seldom injured by planting out as early as the ground can be worked, 2½ feet apart each way. When practicable, seed may be sown in rich soil from the middle of September to middle of October, and transplanted in frames, protect during severe weather and give light and air on mild days. The early varieties should be brought to maturity before summer heat sets in. The late sorts mature in the autumn and are cultivated same as winter Cabbages.

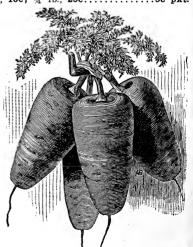
McCullough's Earliest Dwarf Erfurt is beyond question the best for all purposes. It heads where others fail. Year after year this has become more popular, until leading market gardeners now grow it entirely, having discarded all the older varieties, as they find our strain of Erfurt to be the surest-heading. On account of its dwarf and compact habit, the plants may be set out 20 to 22 inches each way, so that from 1200 to 1400 can be planted on an acre. For pickling it is the standard variety. The comth delicious flavor, surpass all others. One Ounce of Seed for 2000 Plants.

CARROT. (Mohre, Ger.)

One Ounce Will Sow 100 Feet of Drill.

A light, sandy loam, well-tilled and manured the previous year. Best suits the Carrot. For early crop, sow as early as the ground can be worked, in drills 10 inches apart, and thin, 5 inches in the rows. The French Forcing, owing to its extreme earliness, is used for hotbed culture. The late sorts long and half-long varieties (main crop), sow from middle of May until first of July in drills 12 to 14 inches apart. Thin out to 6 and 7 inches in a row. Keep the hoe at work. Carrot seed is slow to serminate germinate.

McCullough's Intermediate. The roots grow very regular and smooth, productive rich color, sweet and tender flesh. Excellent variety for either field or garden. Oz., 10c; ¼ lb., 25c...........5c pkt.



Chantenay.

CELERY. (Selleric, Ger.)

One Ounce Will Produce About 2,500 Plants.

To grow early Celery, sow the seed late in March in a hotbed or box and for later crops, in the open ground, as soon as the weather becomes warm, cover lightly, or better still, roll or press it in. Shade the young plants for a week or ten days, and do not let the soil dry out. The tops may be shorn off once or twice before planting, so as to insure "stocky" plants, which will suffer less on being transplanted. When from four to six inches high, transplant into broad, shallow trenches, or on the level ground, setting the dwarf sorts into rows three feet apart, and the tall varieties four feet apart and six inches apart in the rows. The soil should be light, highly manured, partially shaded and moist, or near water, as the plant must be freely watered in dry weather but it should not be put directly on them. Earthing up checks growth and should not begin until quite well grown, then earth up gradually, keeping the leaf stocks close together, so that the soil may not fall into the center of the plant, but never earth up in wet weather, nor when dew is on them. That intended for winter and spring use needs little banking; when stored for winter it will naturally bleach beautifully white.

McCullongh's Paris Golden Yellow. The best Celery for early

McCullough's Paris Golden Yellow. The best Celery for early use. Its rich, golden, yellow color, close habit and compact growth, and the readiness with which it is bleached and rendered marketable makes it invaluable to the gardener and exceedingly popular with every planter. The entire stock is solid and crisp; oz. 60c; 1/4 lb., \$2.25

Golden Self-Blanching. An early beautiful and desirable sort, requiring but little labor to blanch. The heart is a rich, golden yellow, with light, yellowish-green outer leaves; oz., 30c; 1/4 lb., \$1.00'.........5c pkt.

Triumph. The best late celery. A strong and vigorous grower, with very large but crisp, brittle, tender and fine flavored stalks. Will keep longer than any other sort; oz., 20c; 14 lb., 60c. 5c pkt.

CELERIAC, TURNIP ROOTED CELERY.

Sow early in spring. Transplant in May into rich, mellow soil in rows eighteen inches apart and six inches in the row. Water in dry weather. One ounce will sow fifty feet of row.

Special prices given to market gardeners and others who use large quantities of seed.

Write for estimate.



Paris Golden Yellow.

CHICORY.

COLLARDS. (Blatter Kohl, Ger.)

species of Cabbage, very popular in the South-States. Cultivate in the same manner as Cabern States. bage.

Georgia Grown; oz., 10c; 1/4 lb., 30c.......5c pkt.

CRESS.

Sow thickly in shallow drills, early in the spring, and at intervals throughout the season, for a succession, as it soon runs to seed. Water Cress requires a stream of running water, ditch, or pondin which it will grow without care, except at first keeping weeds from interfering with it.

CORN SALAD, OR FETTICUS. (Ackersalat. Ger.)

One Ounce will Sow 20 Square Feet. Six Pounds for an Acre.

Used as a salad Winter and Spring. Sow in Spring, in drills one foot apart; will mature in six to eight weeks. For Winter and early Spring use, sow in drills in August and September. Cover with straw on the approach of Winter, the same as Spinach.

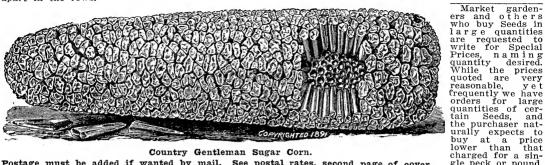
Large Seeded. The most satisfactory to grow; oz., 10c; ¼ lb., 20c; 5c pkt.



CORN, SWEET OR SUGAR.

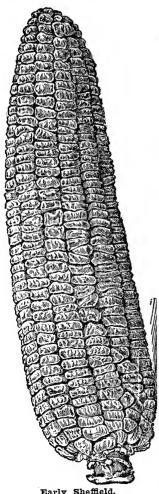
One Pound Will Plant 200 Hills. Twelve to Fifteen Pounds for an Acre in Hills.

The Sweet or Sugar varieties being liable to rot in cold or wet ground, should not be planted before May or until the ground has become warm, and for a succession continue planting every two weeks until the middle of July, in rich, well manured ground, in hills 3 feet apart each way, covering about half an inch, and then thin out 3 plants to a hill, or plant in rows 4 feet apart, and to stand 8 inches apart in the rows.



Country Gentleman Sugar Corn.

Postage must be added if wanted by mail. See postal rates, second page of cover.



Country Gentleman Sugar Corn.

Golden End. Produces an ear about 8 to 10 inches in length, mostly 10 rowed, risens second carly, its globel of core of the core of

Prices, naming quantity desired. While the prices quoted are very

quantities of certain Seeds, and the purchase

gle peck or pound.

CUCUMBER.

One ounce will plant fifty hills; two pounds will plant one acre.

Culture.—For very early Cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over, or protect by hand-glasses. For early use, plant, if the weather has become settled and warm, in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger from insects is over. They succeed best in a warm, moist, rich, loamy soil. Continue planting at intervals for a succession. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness. For pickles, plant from June until the middle of July. The yellow-striped cucumber or squash beetle is the most serious insect enemy of this crop. Bordeau Arsenate of Lead Mixture is by far the best remedy yet discovered. Dilute it with water, 3 ounces to the gallon, and spray it on the vines when in danger of the beetle or blight.

All seeds in Packets, Ounces and Quarter Pounds only, are sent free by mail, at prices quoted; Half-Pounds and larger quantities if to be sent by mail, Postage must be added to prices quoted. See postal

Early Boston Market. Largely used about Boston Jersey Pickle. Evergreen. One of the best varieties for slicing, as it is crisp and of good quality; and as it produces fruit of

by market gardeners. Very produc-tive; oz., 10c; ½, 10., 25c; 1 lb., 80c....5c pkt. Cluster. A much-esteemed early variety, growing in clusters; is extremely productive; oz., 10c; 141b., 25c; 1 lb., treme. tive; oz., 10c; ½ lb., 25c; 1 lb., 80c5c pkt. Frame. A good variety for pick-ling and table Of medium size; oz., 10c; ½ lb., 25c; oxt.

10c; ¼ lb., 25c; 1 lb., 80c..5c pkt.



Davis Perfect.

Green Prolific. the best pickling varieties; dark green, tender, crisp, very pro-ductive; good for table use; oz.,

1/₁ 80c

medium size. it is good for pickling purposes; ez., 10c; 14 lb., 25c; 1 lb.,

lb., 25c; 1 lb.,5c pkt.

Japanese Climbing. It is suitable for growing either in frames or in the open air. It is very early and exceedingly productive. The fruit is excellent either for table or pickling; oz., 15c; ½ lb., 50c...5c pkt.

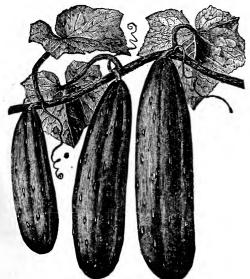
Gherkin. A very small, prickly variety, used exclusively for pickling, for which purpose they should be gathered while young and tender; oz., 25c; ½ lb., 75c; 5c pkt.

ENGLISH FORCING CUCUMBER.

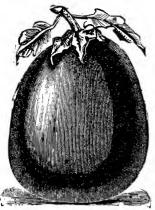
The best for forcing, attaining a length of twenty to thirty inches. They can be grown in hotbeds, where the temperature does not fall below 65 degrees at night.

Duke of Edinburg. Very large and long, dull green, quite smooth; packet of 10 seeds, 25c.

Telegraph. Free bearing, long and extensively grown; packet of 10 seeds, 25c.



Long Green.



EGG PLANT. (Eierpflanze, Ger.) One Ounce Will Produce About 1,000 Plants.

CULTURE.—The seed requires a strong heat to germinate. Sow in a hotbed early in spring, when the plants are 2 inches high transplant. Plant out when the weather becomes settled and warm. Give them a deep, rich soil; full exposure to the sun. When they germinate they are sensitive to damp and being chilled, consequently the amateur often fails to raise them

ENDIVE. (Endivien, Ger.)

Black Beauty.

One Ounce of Seed to 150 Feet of Row.

One of the best and most wholesome salads for fall and winter use.

Sow in shallow drills in April for early use, or for late use in June or July. When 2 or 3 inches high, transplant into good ground, or thin out to one foot apart. When nearly full grown, they must be blanched. This is done by gathering the leaves together, and tying with yarn or bass, to exclude the light and air from the inner leaves, which must be done when quite dry, or they will rot.

Broad-Leaved Batavian. Leaves broad, light green, nearly plain, used in stews and soups. Oz., 15c; 5c part

HERB SEEDS.

CULTURE.—Sow early in April or May, in a sheltered, well-prepared spot in the open ground, either broadcast or in shallow drills about 7 inches apart. Thin out the plants thus raised, and keep clear from weeds.

cieai iioni weeds.	
Anise. Biennial. 10c oz	Lavender. Perennial, 2 feet. 20c oz5c pkt.
Balm, Sweet. Perennial, 1 foot. 30c oz5c pkt.	Rosemary. Perennial, 4 feet. 30c oz5c pkt.
Bazil, Sweet. Annual, 1 foot. 20c oz5c pkt.	Saffron. Annual, 3 feet. 10c oz5c pkt.
Caraway. Perennial, 2 feet. 10c oz5c pkt.	Sage. Annual, I foot. 15c oz.; 50c 1/4 lb5c pkt.
Dill. Biennial, 3 feet. 10c oz5c pkt.	Summer Savory. Annual. 20c oz5c pkt.
Fennel, Sweet. Perennial, 6 feet. 10c oz5c pkt.	Sweet Marjoram. 20c oz
Horehound. Perennial, 2 feet. 25c oz5c pkt.	Thyme. Annual, 1 foot. 30c oz5c pkt.
Hyssop. Perennial, 3 feet. 25c oz	

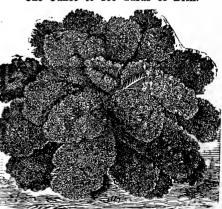
KALE, OR BORECOLE. (Blaetter-Kohl, Ger.)

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. Sow from May to June, and cultivate the same as Cabbage. For early spring use, sow in September, and protect during the winter.

Special Prices Given on Kale Seed in Quantities.

All Seeds in Packets, Ounces and Quarter Pounds only are sent free by mail, at prices quoted; Half Pounds and larger quantities if to be sent by mail, postage must be added to prices quoted. See postal rates, second page of cover.

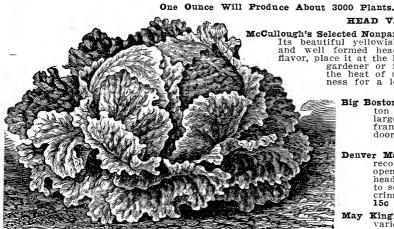
One Ounce to 100 Yards of Drill.



LEEK. (Lauch, Ger.)

LETTUCE.

CULTURE.—Sow the seed in hotbeds or flats during February or early March, prick the young seedlings cut in flats or cold frame 4 inches apart each way, and as soon as a nice, rich, warm spot can be prepared in open ground in spring, transplant the well hardened plants in rows a foot apart, allowing 8 to 12 inches space between the plants in the row. For succession sow seed thinly in open ground, and thin the plants to 5 or more inches apart. Sow for succession every few weeks until the fall.



McCullough's Nonpareil Lettuce.

CURLED VARIETIES.

Grand Rapids.

Bon-Ton.

Early Curled Simpson. Does not head, but forms a close, compact mass of leaves; very early; excellent for forcing. 15c oz.; 40c 1/4 lb..5c pkt.

Early Curled Silesian. Early, loose heads, curled, tender and fine flavor. 15c oz.; 40c 1/4 lb................5c pkt.

Very distinct, excellent for summer use and for

ROMAINE, COS, OR CELERY LETTUCE.

These are distinct from the ordinary Lettuce, and much liked on account of their crisp, tender quality and delicate flavor. They produce long, narrow leaves, which are blanched by drawing in the outer leaves and tying.

Paris White Cos. One of the best varieties for blanching; very tender. 15c oz.; 40c 1/4 lb...............5c pkt.

Trianon Self-Folding. A self-blanching Cos Lettuce, very crisp and tender, and of excellent flavor. If the leaves are tied up the plant soon forms a solid head and bleaches to a pure white. The leaves get stiff and crisp like Celery, and can also be eaten prepared like salad. 15c oz.; 40c 1/4 lb.....................5c pkt.

HEAD VARIETIES.

McCullough's Selected Nonpareil. The finest market variety.

Its beautiful yellowish-green color, crimped, curled and well formed heads, tender quality and sweet flavor, place it at the head of the list for the market gardener or for family use. It withstands the heat of summer and retains its sweetness for a long time. 15c oz.; 40c 1/4 lb. 5c pkt.

Big Boston. Resembles the popular boston Market, but is nearly twice as large; desirable for forcing in frames and for spring and fall outdoor planting. 15c oz.; 40c 1/4 lb. 5c pkt.

re Market. This Lettuce is highly recommended either for forcing or open ground; forms large, solid heads of a light green color; is slow to seed. The leaves are curled and crimped; very crisp and tender. 15c oz.; 40c ½ lb.........5c pkt. Denver Market.

m. Heads green, with white heart. Large size; crisp, tender. 15c oz.; 40c ¼ lb..5c pkt.

Yellow-Seeded Butter.

Head. This popular variety produces large, loose heads, finely crimped and fringed leaves, outer pertions shaded brown; crisp, sweet and tender. 15c oz.; 40c 1/4 lb.......................5c pkt.



MUSKMELONS.

(Zucker Melone, Ger.)

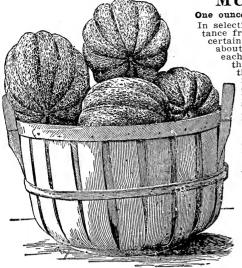
One ounce will plant about 50 hills; 2 to 3 lbs. in hills per acre.

One ounce will plant about 50 hills; 2 to 3 lbs. in hills per acre.

In selecting a patch for melons, be careful to have it at a safe distance from your Squashes, Cucumbers, Pumpkins, etc., or they will certainly mix. In preparing the hills fork in plenty of manure and about the middle of May, when the ground is warm, plant in each hill eight or ten seeds, and cover half an inch deep. After the danger from bugs is over, pull all but three or four of the strongest plants. As soon as the vines have run sufficiently and spread their branches, stop them by pinching the top off the first running bud. This will strengthen the plants and promote their perfecting fruit early. The ground should be kept free from weeds and frequently cultivated. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground. Melon vines are subject to the same destructive insect and fungous foes as are cucumber and squash vines. Early and repeated spraying with Bordeaux Arsenate of Lead Mixture is always advisable for these crops. crops.

A special price will be mailed upon application to those who use Melon seed in quantity.

Paul Rose. Cross between the old Netted Gem and Miller's Cream and combines the good qualities of both. The fruit grows uniform. It is a heavy cropper, the vines are healthy and robust. The flesh is salmon colored, very deep and of fine melting character, with thin tough rind and small seed cavity. The flavor is excellent, sweet and rich; oz., 10c; 1/4 lb., 35c;

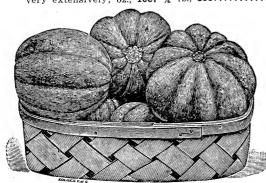


Paul Rose Musk Melon.

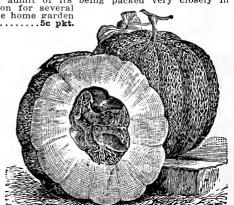
Rocky Ford. A variety extensively grown in Colorado. The reasons for the widespread popularity of these melons are their superb table and wonderful shipping qualities, which enables them to be carried great distances, and yet arrive in first-class condition for market. The fruit is of medium size, oval shaped, heavily netted and very solid. The flesh is green, thick and juicy. It is early and wonderfully productive; oz., 10c; ½ lb., 25c; 5c pkt.

A yellow-fleshed melon of handsome apop. A yellow-nesned meion of nandsome appearance and excellent quality. A medium sized Muskmelon, nearly round in shape, with shallow netting on skin. The flesh is deep yellow and has a rich flavor. It is a productive variety, suitable for growing in all sections; oz., 15c; ¼ lb., 50c........5c pkt.

1 Gem. One of the earliest small melons. Globular shape, uniform in size; flesh light green, tinged with yellow and of very fine flavor; oz., 10c; ½ lb., 35c................................ c pkt.



Rocky Ford.



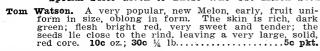
Extra Early Hackensack.

WATERMELONS.

One Ounce for Thirty Hills; Four to Five Pounds for an Acre.

CULTURE.—See directions given under Muskmelons. Watermelons, however, are slightly less subject to "bug" depredations and disease attacks that Muskmelons. At the same time they are more easily hurt by strong spray mixtures, and caution in the use of such mixtures is advisable.

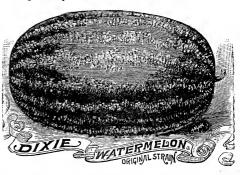
Special Price Given to Those Who Use Melon Seed in Quantity. Write for Estimate.



erful. Handsome appearance and fine quality. The fruits are oblong in form, averaging 20 inches in length; the skin is beautifully marked with broad striping of light green on a dark ground. The flesh is of a pale pink color, very crisp and sweet. The fruits bear shipping well. 10c oz.; 20c 1/4 lb...........5c pkt.

Color dark green; flesh deep scarlet; rind hard but thin; quality the best. 10c oz.; 20c 1/4 lb......5c pkt.

Cuban Queen. Flesh bright red, tender and melting, luscious, crisp, very sugary. 10c oz; 20c 1/4 lb.........5c pkt.

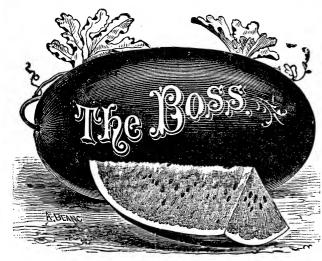


A cross between the Kolb Gem and old-fashioned Mountain Sweet, surpassing the former in earliness, productiveness and shipping qualities. Dixie. 20c ¼ lb......5c pkt.

Sweetheart. Vine vigorous and productive flesh bright red, solid and very tender, and sweet. 10c oz.; 20c ¼ lb....5c pkt.

Halbert Honey. A very sweet, long, dark green variety. Fruits average 18 to 20 inches long, have a thin rind and deep red meat of delightfully delteious flavor; pulp entirely free from stringiness; seeds white. One of the finest for the home garden. 10c oz.; 30c 1/4 lb..5c pkt.

Florida Favorite. Oblong in shape, growing to large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet. 10c oz.; 25c ¼ lb.; 5c pkt.



Gray Monarch. Large size; the skin is a mottled gray; shape long; flesh bright crimson and of sweet, delicious flavor. 10c oz.; 20c ½ lb. 5c pkt.

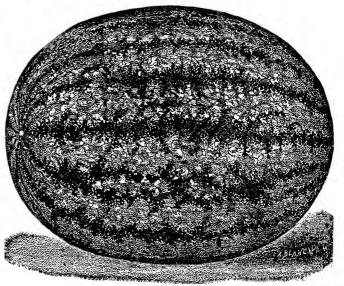
Kentucky Wonder. Shape oblong, attaining a good size; skin dark green and beautifully marked. Flesh a beautiful rich scarlet color crisp, rich, sugary, always firm and solid.

10c oz.; 25c ½ lb........5c pkt.

Rickley's Sweet. Where sweetness combined with large size is desired this variety will surely please; it has that crisp, sugary flavor so much desired. It is the sweetest of all. Oval shape. 10c oz.; 30c 1/4 lb. 5c pkt.

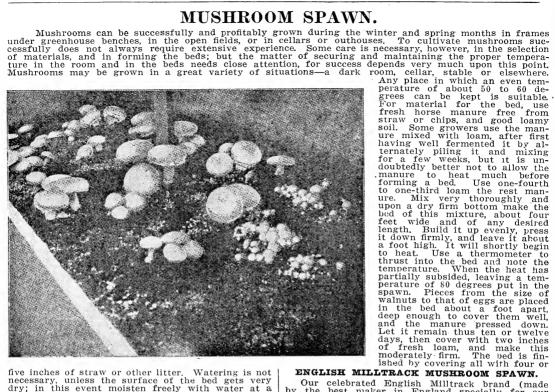
Long White Icing. The skin a mottled gray color, shape long, flesh bright crimson and of sweet, delicious flavor. 10c oz.; 25c ½ lb..5c pkt.

Peerless, or Ice Cream. Of medium size; skin light mottled green; flesh scarlet. 10c oz.; 20c ¼ lb...5c pkt.



Kolb Gem.

MUSHROOM SPAWN.



five inches of straw or other litter. Watering is not necessary, unless the surface of the bed gets very dry; in this event moisten freely with water at a temperature of about 90 degrees. In gathering the crop, do not cut, but twist them off carefully, filling up the holes carefully with loam to keep insects from the roots. In six or eight weeks from spawning the beds mushrooms should appear.

We supply many of the largest commercial growers in the United States and have on hand at all times in the season fresh spawn of the best manufacture.

One pound of Spawn is sufficient for a bed 2 x 6 feet. Postage must be added if wanted by mail; see postal rates, second page of cover.

How to Grow Mushrooms-A booklet of 14 pages with full and complete instructions to grow Mushrooms successfully, will be mailed on receipt of 10c, or free with an order for \$1.00 worth of Spawn when requested.

Mushrooms: How to Grow Them. er. 169 pages. Cloth, Price, \$1.00. coner.

ENGLISH MILLTRACK MUSHROOM SPAWN.

ENGLISH MILLTRACK MUSHROOM SPAWN. Our celebrated English Milltrack brand (made by the best maker in England specially for our trade) has gained an enviable reputation among critical growers for its uniform good quality, and can be thoroughly relied upon to produce a good crop of the best Mushrooms. Commercially it is more planted than any other spawn. It comes in pressed bricks weighing about 20 ounces. They are broken into pieces the size of a walnut and put sidewise in the beds 10 to 12 inches apart each way. Price, by express—customer to pay charges —20c per brick; 15c per lb.; \$1.00 for 10 lbs.; \$9.00 for 100 lbs. By mail, 25c per lb.; 30c per brick, postpaid.

AMERICAN MADE PURE CULTURE MUSHROOM SPAWN.

A very superior article, made in this country from carefully selected spawn, which it is claimed is much more vigorous than the imported article, and will produce Mushrooms of a very superior quality and flavor. The popularity of Pure Culture Spawn is increasing rapidly and many of the large growers are now using it. They claim it is a surer crop. Amateurs have much the best results with this kind. By express—customer to pay charges— By mail, 35c per brick:

20c per brick; 6 bricks, **\$1.00**; 100 bricks, **\$15.00**. **\$1.50** for 5 bricks, postpaid.

OKRA, OR GUMBO. (Ocker, Ger)



Okra or Gumbo.

ONION SEED.

(Swiebel, Ger.) One Ounce for 150 Feet of Drill. Five to Six Pounds for One Acre. Onion Seed for Sets, 30 to 40 Pounds per Acre.

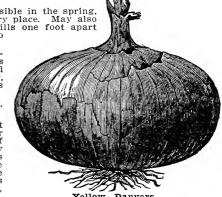
CULTURE—For sets, drill the seed thickly as early as possible in the spring. As soon as the tops dry off in the summer, remove to a dry airy place. May also be grown to full size the first season by sowing thinly in drills one foot apart and one-quarter inch deep, in March or early April, thinning to

three or four inches apart.

By sowing in frames in February or March and transplanting in April, onlons of immense size can be obtained. For this purpose the Southport Globe varieties (white and yellow) and Prize Taker are usually preferred. Onions delight in a strong, rich, deep loamy soil, and succeed well if grown successive years on the same ground.

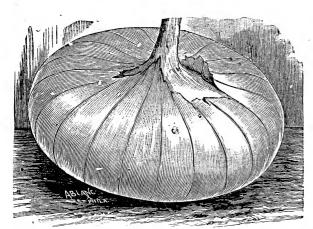
Special price given to those who use onion seed in quantity. Write for estimate.

v Globe Danvers. A standard sort and one of the most desirable; an excellent keeper and very productive. Our strain of this variety is the true globe shape, and not of the flat type. Onion growers throughout the country prefer this type of onion to all others, and it is with this in view that the bulbs from which our seed is grown are specially and carefully selected as to shape. It is the best paying onion that is grown for general crop, and has been the leading variety for years; oz., 15c; ¼ lb., 50c the strain of the service of the servi Yellow Globe Danvers. 50c5c pkt.



Yellow

Yellow Danvers. Bulb of good size and flat, the standard yellow onion for market or home use, being both early and an enormous yielder as well as good keeper; oz., 15c; ½ lb., 40c......5c pkt.



Mammoth Silver King.

Southport Red Globe. Beautiful globe shape; of medium size and a good keeper and of superior quality. This variety is very popular in some sections. Oz., 20c; ½ lb., 60c....................5c pkt.

Yellow Dutch, or Strasburg. A good keeper and well flavored; bright straw-colored skin and somewhat flattened shape. The Onions grow to a good size and are very mild. This variety is largely grown for sets on account of its excellent keeping qualities. Oz., 15c; 1/4 lb., 50c......5c pkt.

White Fortugal, or Silver Skin. This variety is one of the leading white sorts. The bulbs are flat in shape and mature early. Largely used for growing sets. Oz., 20c; ½ lb., 60c........5c pkt.

ONION SETS.

Prices Subject to Market Changes.

Onion Sets should be planted out as early in the spring as the ground is dry enough to work; plant them in rows 12 inches apart, with sets 2 inches apart in the row. Yellow Onion Sets, 25c per quart by mail postpaid. White Onion Sets, 25c per quart by mail postpaid. Chives. (See Vegetable Plants.)

When larger quantities of Onion Sets are desired, write for prices.

write for prices.

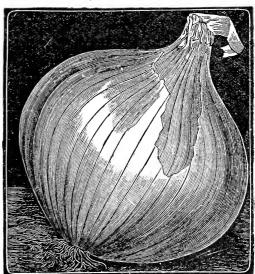
Large Red Wethersfield. Grows to full size the first season from seed. The Onions are large, flat in shape, with skin of a purplish-red color and flesh of a purplish-white color, rather strong-flavore and an excellent keeper. Oz., 20c; ¼ lb., 60c. 5c pkt.

White Queen. A rapid-growing variety of mild flavor; pure white, and splendid for pickling. Oz., 20c; ¼ lb., 60c......5c pkt.

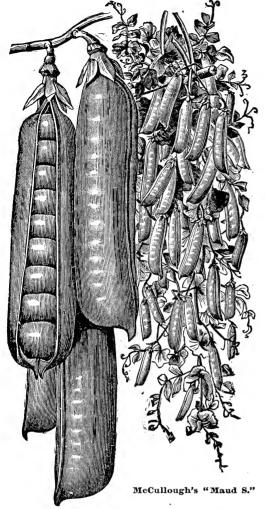
Barletta. An extra early small, white Onion; similar to White Queen. Oz., 20c; ½ lb., 60c................5c pkt. White Barletta.

port Yellow Globe. A very large, hand-some, globular-shaped yellow variety, very productive, of mild flavor. The outer skin is a beautiful pale yellow; the bulbs are of a beautiful globe shape and good keepers. Oz., 20c; ¼ 1b., 60c. Southport Yellow Globe. 5c pkt.

port White Globe. Pure white color, mild flavor. A good keeper and very productive. It is best to dry these Onions in a shady place, where they will get plenty of air. Oz., 20c; ½ lb., 60c......5c pkt. Southport White Globe.



Prize Taker.



GARDEN PEAS.

One Quart Will Plant About 100 Feet of Drill. and One-Half to Two Bushels for an Acre.

and One-Half to Two Bushels for an Acre.

CULTURE.—Peas succeed best in light, dry, loamy soil. Early and Dwarf sorts-require richer soil than the late varieties. If manure is used, let it be old and well rotted, or there will be a rank growth of vines with few pods. Sow the early, smooth, round sorts as early in spring as the ground can be worked. Seeds of wrinkled varieties are more liable to rot if the ground is cold, and must be planted later. From the first sowing, sow every two weeks until June for a succession. After that there is danger of mildew. Discontinue then until August, when a planting of extra early or early sorts will often produce a good crop. Sow the seed in single drills, three feet apart for dwarf sorts and four for tall sorts, or in double drills six or eight inches apart, one inch apart in the drill, and not less than four inches deep, since deep planting prevents mildew and prolongs the season. Cultivate well, and draw the earth twice to the vines during growth. Stake the tall varieties when they begin to vine. Pick the pods as soon as fit, and allow none to ripen on the vines, as they will then cease bearing. All kinds of Peas do best when supported with brush or wire.

Special Price Giren to Those Who Use Peas and Other

Special Price Given to Those Who Use Peas and Other Seed in Quantity. Write for Estimate.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

EARLY VARIETIES.

McCullough's "Ohio Chief." This new Pea is of the extra early type and from our trials and observation, it promises to prove the earliest Pea in the market. It grows about two feet high, stem strong, very vigorous and bears well-filled, round pods about three and a half inches long. It is a white seeded variety. All growers of Peas should give it a trial. 25c pt; 40c qt...5c pkt.

should give it a trial. 25c pt.; 40c qt...5c pkt.

S. The earliest and most prolific Pea known. The pod is of a dark green color, of a full, round shape, and of strong texture which especially fits it for shipping long distances. For a late fall crop it has few equals, and is the market gardener's favorite for all seasons. The far northern point at which our Peas are grown renders them almost proof against cold, and the best for early spring or late fall crop. Thousands of market gardeners have pronounced this Pea unequaled in earliness, yield and regularity of growth. Make first planting as early in the spring as the ground will permit and cover well. 15c pt.; 25c qt.; 80c 4 qts.; \$1.50 peck. Maud S.

Gradus, or Prosperity. The most popular high quality, extra early wrinkled Pea. This remarkable Pea is not only large and of the best quality, but is within two or three days as early as the small, round, extra early sorts. Gradus is a wrinkled Pea, growing about 30 inches high; the pods are of a bright green color, measuring 4 inches or more in length, as large as Telephone, well tain in a remarkable manner their color and attractive appearance after cooking. Make the earliest sowing in the warmest spot in the garden. A grand pea in all respects. 15c pt.; 25c qt.; 90c 4 qts.

Nott's Excelsior. A dwarf wrinkled Pea of the highest excellence. The pods average three inches in length and are well filled with peas of large size and unusually sweet flavor; one and one-fourth feet. 15c pt.; 25c qt.; 90c 4 qts.5c pkt.

American Wonder. This variety stands unrivaled in point of flavor and quality. It is dwarf and robust in habit, growing from 10 to 15 inches in height, according to the soil. 15c pt.; 25c; qt.; 90c 4 qts......5c pkt.

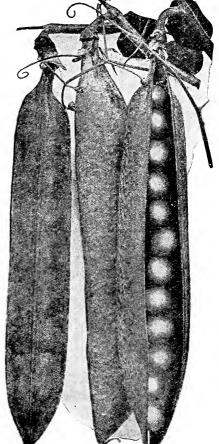
GARDEN PEAS—Continued.

Second Early and Main Crop.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Admiral Dewey. The largest podded Pea yet introduced. Height, 3½ feet; pods a rich, dark-green color, frequently 6 inches long, beautifully shaped. Peas large, tender and of fine flavor. 15c pt; 25c qt; 90c 4 qts. 5c pkt.

Duke of Albany (American Champion). A strong, vigorous grower; pods extra large, dark-green, closely filled with Peas of excellent flavor. Three and one-half feet. 20c pt; 30c qt; \$1.00 4 qts. 5c pkt.



Alderman Peas.

Large White Marrowfat. A favorite variety; large well-filled pods. Five feet. 10c pt.; 20c qt.; 70c 4 qts...5c pkt. CANADA FIELD PEAS. (See Field Seeds.)

Write for Special Prices on Large Quantities of Peas.

PARSLEY. (Petersilie, Ger.)

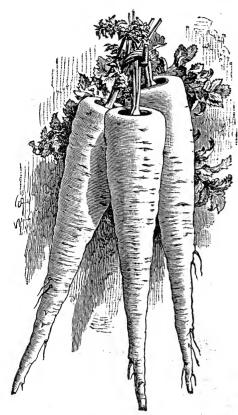
One Ounce to 150 Feet of Drill.

Sow thickly early in April, in rows one foot apart and one-half inch deep; thin out the plants to stand six inches apart in the rows. The seed is of slow germination, taking from three to four weeks to make its appearance, and often failing to come up in dry weather. To assist its coming up quicker, soak the seed a few hours in warm water or sprout in damp earth, and sow when it swells or bursts. For winter use protect in frame or light cellar.

Norwood. Fine curled leaves of rich dark sreen, compact growth, finest quality. 15c oz.; 40c ¼ lb......5c pkt.

Hamburg Turnip Rooted. The fleshy root resembles a parsnip and is used for flavoring soup, stews, etc. 10c oz.; 25c ¼ lb........5c pkt. POTATOES. (See Field Seeds, etc.)





Long, Smooth, Hollow Crown.

PUMPKIN. (Kuerbis, Ger.)

PARSNIP. (Pastinake, Ger.)

One Ounce for 200 Feet of Drill; 5 to 6 Pounds for an Acre.

Sow seed early in spring, in deep, rich soil in drills. Scatter the seeds thinly and cover evenly with the rake. After the appearance of the plant the soil must be stirred frequently until the leaves cover the ground. The seed is slow to germinate, and is frequently a long time in coming up; will vegetate sooner by steeping 6 to 12 hours in a liquid manure, diluted with water, and mixed with sand before sowing. When well up thin out to 5 or 6 inches apart in the rows. Unlike Carrots, they are improved by frost, and it is usual to take up in fall a certain quantity for winter use, leaving the rest in the ground until spring, to be dug as required.

All Seeds in Packets, Ounces and Quarter Pounds only are Sent Free by Mail, at Prices Quoted; Half-Pounds and Larger Quantities if to be Sent by Mail, Postage Must be Added to Prices Quoted. See Postal Rates, Second Page of Cover.

Cover.

Large Sugar, or Hollow Crown. The best variety; roots long, very smooth, white, tender, sugary and of excellent flavor. This strain was made by careful selection of roots growing to an ideal shape and having the distinct hollow crown. 10c oz.; 20c 1/4 lb.; 60c lb...5c pkt.

Student, or Guernsey. A good half-long variety, smooth, sweet and of delicate flavor. 10c oz.; 20c 1/4 lb.; 60c lb.; 60c lb.

PEPPER. (Pfeffer, Ger.)

One Ounce of Seed for 1,500 Plants.

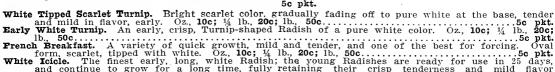


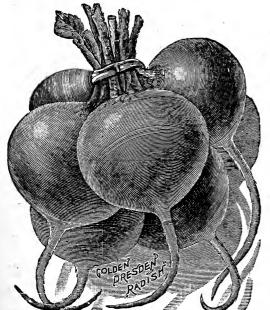
Tennessee Sweet Potato Pumpkin.

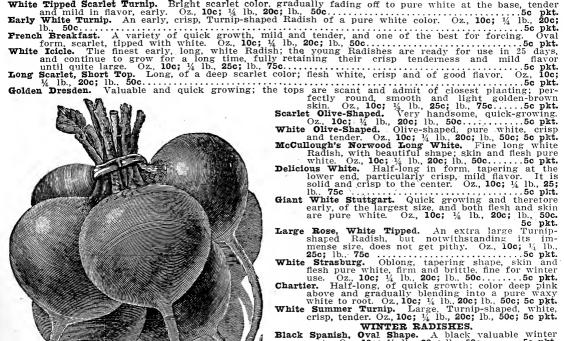
RHUBARB. (Rhabarber, Ger.)

RADISH. (Rettig, Ger.)

One Ounce to 100 Feet of Drill. 8 to 10 Pounds for an Acre. When ordered at pound rates postage must be added if wanted by mail; see postal rates, second page of cover.







WINTER RADISHES.

Black Spanish, Oval Shape. A black valuable winter sort. Oz., 10c; ½ lb., 20c; lb., 50c.......5c pkt.

Black Spanish, Long. Differs from the above only in shape. Oz., 10c; ½ lb., 20c; lb., 50c.....5c pkt.

Celestial. An all-season white Radish. Oz., 10c; ¼ lb., 20c; lb., 50c......5c pkt.

Chinese Scarlet. Half-long, fine winter sort, keeps well. Oz., 10c; ¼ lb., 20c; lb., 50c......5c pkt.

Mammoth White Winter. A giant white-fleshed fall Radish. Oz., 10c; ¼ lb., 20c; lb., 50c.....5c pkt.

SALSIFY. (Hafer-Wurzel, Ger.)

One Ounce Will Sow 50 Feet of Drill.

Commonly called Vegetable Oyster. The cultivation is precisely the same as directed for Parsnips, and it will keep over winter, in the ground where grown, in the same way as Parsnips.

Long White French. Roots of medium size, white and smooth. 10c oz.; 25c ½ lb...............5c pkt.

Mammoth Sandwich Island. This variety will average nearly double the size of the White French, and is of excellent quality. The best variety for market gardeners' use. 15c oz.; 40c ½ lb....5c pkt.

SPINACH. (Spinat, Ger.)

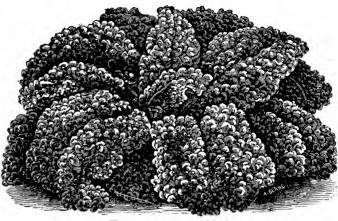
One Ounce for 100 Feet of Drill. 10 to 12 Pounds for an Acre. Special Prices Given on Spinach in Quantities.

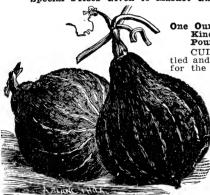
Given on Spinach in Quantities.

CULTURE.—For spring and summer use, sow either broadcast or in drills as early as the ground can be worked. The fall sowing is the main one with our market gardeners, which is done from August to October, and by careful attention they have it in marketable condition throughout the entire winter and spring. If the land is dry the seed should always be rolled or trampled in, for if the soil is loose the hot air shrivels the seed, so that it will not germinate.

Norwood Savoy. One of the best for

Norwood Savoy. One of the best for either the market or kitchen garden. A quick-growing, round-





SQUASH. (Kurbiss, Ger.) One Ounce of the Bush Varieties for 40 Hills, or of the Large-Seeded Kinds, 15 Hills. Two or Three Pounds of the Bush, and 3 to 4 Pounds of the Large-Seeded for an Acre.

CULTURE.—It is useless to sow until the weather has become settled and warm. Light soils are best suited for its growth. Prepare hills for the seeds by incorporating 2 or 3 shovelfuls of well-rotted manure with the soil for each hill. For the bush varieties, from 3 to 4 feet each way, and for the running sorts from 6 to 8 feet. Eight or ten seeds should be sown in each hill, thinning out after they have attained their rough leaves, leaving 3 or 4 of the strongest plants, after which cultivate same as Cucumbers.

SUMMER VARIETIES.

Strongest plants, arter with Strongest plants, arter strongest plants, arter strongest plants, arter strongest plants, are strongest plants. Strongest plants of the strongest

FALL OR WINTER VARIETIES.

TOMATO (Liebesapfel, Ger.)

One Ounce of Seed Will Produce about 2,000 Plants; 1/4 Pound to the Acre.

One Ounce of Seed Will Produce about 2,000 Plants; ½ Pound to the Acre.

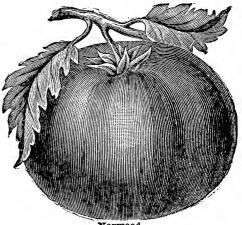
CULTURE.—Sow in a hotbed, green-house or window in a sitting room, where night temperature is not less than sixty degrees, about the first week in March, in drills five inches apart and half an inch deep. When the plants are about two inches high they should be set out in boxes three inches deep, four or five inches apart, in same temperature, or removed into small pots, allowing a single plant to a pot. They are sometimes transplanted a second time into larger pots, by which process the plants are rendered more sturdy and branching. About the middle of May, the plants may be set in the open ground. They are planted for early crops on light, sandy soil, at a distance of three feet apart, in hills in which a good shovelful of rotted manure has been mixed. On heavy soils, which are not suited for an early crop, they should be planted four feet apart. Water freely at the time of transplanting and shelter from the sun a few days until the plants are established. For late use, sow in a sheltered border in May, and set out the plants in July; the green fruit can be picked off before frost, and ripened under glass. By training the tomato vines or trellises or tying to stakes, they will increase in productiveness, the fruit will ripen better, and be of finer quality.

Seed in Packets. Ounces and Ouarter Pounds are sent free

Seed in Packets, Ounces and Quarter Pounds are sent free by mail, at prices quoted.

Special Prices Given to Market Gardeners and Truckers. Earliana.

Dwarf Champion. Of dwarf, stiff, distinct, upright growth, scarcely needing support; early and prolific; smooth, medium-sized fruits of pinkish purple color; oz., 30c; ¼ lb., 80c...5c pkt.



Norwood.

PRESERVING TOMATOES.

following small-fruited varieties are used for making preserves, and are also quite ornamental while growing in the garden:

Shaped. A small preserving tomato, of pear-shape, and bright red color; oz., 25c...5c pkt. Pear-Shaped. Red Cherry. Small, round fruit, resembling cherries; used for preserves; oz., 25c......5c pkt.

TOBACCO.

The seed should be sown as early as possible after danger of frost is over. A good plan is to burn a quantity of brush and rubbish in the spring, on the ground intended for the seed bed, then dig and thoroughly pulverize the earth and mix with the ashes, after which the seed may be sown and covered very lightly covered very lightly.

Connecticut Seed Leaf. A long leaf, fine in texture.

White Burley. Extra stock, grown largely for the manufacture of fine-cut: oz. 25c.....5c pkt. Zimmer's Spanish. One of the most popular and extensively grown; oz. 30c......5c pkt.

TURNIP. (Ruben, Ger.)

One Ounce Will Sow 150 Feet of Drill; 1 to 11/2 Pounds to the Acre.

The soil for Turnips should be rich and mellow. For an early crop, sow early in the spring, in drills, about a foot apart or broadcast and thin out. For a general crop, sow from the first of July to the last of August, in drills 18 to 20 inches apart, and thin out the plants to 8 or 10 inches. To destroy the fly, which is very destructive to the Turnip crop, use "Hammond's Slug Shot." Sow an abundance of seed and thin out. Should the crop be destroyed, harrow the ground immediately and sow again.

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RUTA BAGA.

VEGETABLE PLANTS AND ROOTS.

Prices do not include prepayment by mail or express. If wanted by mail, add for postage, 5c per doz., 25c per 100 on Cabbage, Cauliflower, Celery and Sweet Potato Plants; 10c per doz. on Egg Plants, Pepper and Tomato Plants.

ASPARAGUS ROOTS.

Two-year-old Roots.

Per 100, \$1.00; 250, \$2.00; 1000, \$7.00 auth, 100, \$1.00; 250, \$2.00; 1000, \$7.00 muoth White, Barr's Mammoth. Columbia Mammoth

Palmetto....Per 100, \$1.00; 250, \$2.00; 1000, \$7.00 Palmetto....Per 100, \$1.00; 250, \$2.00; 1000, \$7.00 Conover's Colossal, 100, \$1.00; 250, \$1.75; 1000, \$6.00

Special Prices Quoted on Larger Quantities.

CABBAGE PLANTS.

Early Jersey Wakefield...Per 100, 50c; 1000, \$4.00 Lou's ville Drumhead....Per 100, 50c; 1000, \$4.00 Premium Late Flat Dutch..Per 100, 40c; 1000, \$3.00

CAULIFLOWER PLANTS.

Earliest Dwarf Erfurt. Per doz., 25c; per 100, \$1.50 Early Snowball....... Per doz., 25c; per 100, \$1.50

CELERY PLANTS.

Leading Sorts.......Per 100, 50c; per 1000, \$3.50

CHIVES—Good clumps....10c each; \$1.00 per doz.

EGG PLANTS......Per doz., 40c; per 100, \$3.00 HORSERADISH SETS....15c per doz.; 65c per 100 (By mail, 25c per doz.; 90c per 100, postpaid.)

PEPPER PLANTS.

Nansemond, or Jersey Yellow. Per 100, 30c Red Bermuda Per 100, 40c Southern Queen. Per 100, 35c TOMATO PLANTS.

Transplanted Plants. Leading sorts. Per doz., 25c; per 100, \$1.75

RHUBARB ROOTS.

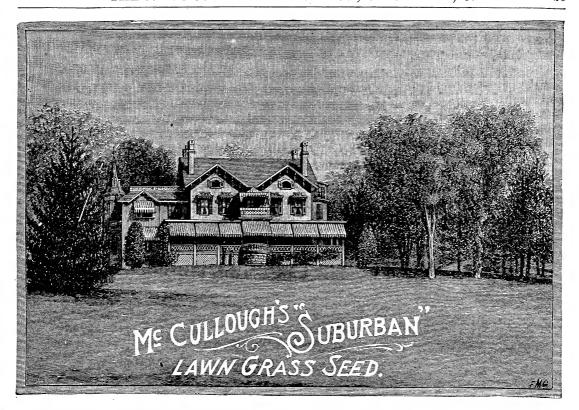
Single Eye (by mail, 75c doz.); each, 5c; doz., 50c Small Clumps (by express or freight only).

Each, 10c; per doz., \$1.00

Large Clumps (by express or freight only),
Each, 25c; per doz., \$2.50

POTATOES. (See Field Seed, etc.)

We are Large Growers of Vegetable Plants. Have Them Fresh Every Day in Season. Special Prices on Large Quantities.



McCULLOUGH'S "SUBURBAN" LAWN GRASS SEED.

(Trade Mark) Registered.

Is a mixture of the finest Dwarf Evergreen Grasses that grow and flourish during different months of the year so that a rich, deep, green, velvety lawn is constantly maintained. Our mixture is the result of several years experimenting, and, as we now offer it, is unequaled. The quantity required for making a new lawn is four bushels (64 lbs.) per acre, or for renovating old lawns, two bushels (32 lbs.) per acre. For a plot 15x20, or 300 square feet, one pound is required for a new lawn, or about one-half pound for renovating.

A lawn seed mixture is very much to be preferred to any single gross; if it is beneathy made the

A lawn seed mixture is very much to be preferred to any single grass; if it is honestly made, the several varieties of grass which compose it, mature at different seasons of the year, thus keeping the green sward in good color and condition during the hot weather, not losing its color, as the single

variety is liable to do.

Prices: ½ 1b., 15c; 1 1b., 25c; 5 1bs., \$1.00; 8 1bs., \$1.50; 1 bu. of 16 1bs., \$3.00. By mail 10c per

How to Make a Lawn.—A fine lawn is an unfailing mark of intelligence and taste, to obtain which the main point is to start right. Seed will make a better lawn than turf or sod. The best soil is a good medium texture; the surface should be thoroughly pulverized and smoothed to the desired grade; remove all large stones, roots and hardened pieces of earth that can not be readily broken; ample time being allowed for the thorough settling of the soil, which is greatly aided by a few heavy showers of rain. When the soil is firm, level and suitably moist, sow "Suburban" Lawn Grass Seed at the rate of four bushels (64 lbs.) per acre. It is unwise to be too economical in the quantity of seed used, if the best results are desired. The seed should be sown broadcast and as evenly as possible, then give a thorough rolling or pat well with the back of a spade. The seed must be well firmed in the soil. When the young grass attains a height of 4 or 5 inches, carefully mow with a sharp scythe. After this, according to the season, it should be mown with a lawn mower every week or ten days.

General Surface Renovating.—When your lawn has already been established, you will find it to your

General Surface Renovating.—When your lawn has already been established, you will find it to your advantage to lightly re-seed each season. As early as possible, carefully rake off all dead leaves, etc., and give the lawn a dressing of our pulverized EL PASO SHEEP MANURE, or our PURE BONE MEAL at the rate of at least 500 pounds per acre, and rake in, after which sow our "Suburban" Lawn Grass Seed at the rate of two bushels (32 lbs.) to the acre; roll thoroughly or pat with the back of a

spade.

Renovating in Spots or Patches.—Everyone is aware that even in the best-kept lawns unsightly spots devoid of grass will appear, which are caused by root-destroying insects; and as these spots are not protected by a covering of turf during the winter, as a natural consequence the chemical elements in the soil are leached out by the action of the weather, causing these spots to "cake" or become hard early in the spring. It is useless and a waste of seed to sow these spots unless they are carefully prepared to receive the seed. For this purpose it is our practice to cover these spots with either of the fertilizers mentioned above at the rate of 13 lbs. for each 300 square feet, then dig these spots up, and after raking until no trace of the fertilizers can be seen, sow our "Suburban" Lawn Grass Seed at the rate of 1 lb. to each 300 square feet. Roll thoroughly or pat with the back of a spade.

How to Weed a Lawn.—Many persons suppose that whenever they pull a weed out of their lawn, that they have accomplished all that is necessary. Our practice for years has been to always have a supply of our "Suburban" Lawn Grass Seed at hand, and whenever any weeding is done on the lawn to immediately drop a few grains of seed wherever a weed is removed, and while the soil is disturbed to pat (or rather coax) the seed into the soil. In a season or two your efforts will be repaid by having a beautiful lawn, entirely free from weeds.

McCullough's "El Paso" sheep manure is the best fertilizer for lawns. (See Fertilizers.)

GRASS SEEDS.

For many years Grass Seeds have been one of our most important specialties, and our improved and perfected facilities for handling same (at a minimum cost), either in small or car lots, enables us to offer our customers the best possible service, both as to quality and promptness in executing orders.

We would call attention to the fact that Cincinnati is an important Grass Seed center. WE EX-FORT MANY CARLOADS OF GRASS SEED—THE WORDS "McCULLOUGH" AND "BLUE GRASS" BEING VERY FAMILIAR TO THE PRINCIPAL SEED DEALERS OF THE WORLD.

While we expect to adhere closely to prices quoted in this list, owing, to market fluctuations, it impossible to guarantee prices, but all orders will be filled at lowest market price on day of receipt.

We have four or five different grades of Grass Seed, especially of the kinds most in demand, such as Clovers, Timothy, Blue Grass, Red Top, etc.

We will be pleased to quote lowest market price on application.

For best results, we advise the use of our highest grades, "XXXX" and "Buckeye."

We are the largest buyers in this section, and will always pay the highest market price. Submit samples and name quantity to offer.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

Special Mixtures For Lawns, Terraces, Golf Links and Putting Greens.

"SUBURBAN" LAWN GRASS. This special mixture produces beautiful and permanent lawns. It is made from our own formula, and composed of grasses which are adapted for the purpose of producing turf which retains its rich, of grasses which are adapted for the purpose of producing turf which retains its rich, green color and velvety appearance throughout the entire summer and fall. See also page 25. ½ lb., 15c; 1 lb., 25c; 5 lbs., \$1.00; 1 bu. of 16 lbs., \$3.00.

e Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover. Postage

SHADY PLACE MIXTURE. PHACE MIXTURE. On nearly all lawns there are shaded, bare and unsightly spots on which the owners have difficulty in getting a stand of grass; for such places this mixture is adapted. It is composed of dwarf-growing grasses which are found naturally growing in such places. Should the ground have become "sour" or drainage defective, it is apt to be covered with moss. If such is the case, apply some lime or land plaster to sweeten it, but the moss should first be removed by the use of a sharp rake, then sow the seed at the rate of four bushels (64 lbs.) per acre. 1 lb., 35c; 5 lbs., \$1.50; 1 bu. of 16 lbs., \$4.00. On nearly

TERRACE MIXTURE. There is nothing more annoying than to have ground washed out. In this mixture we have put quick-growing and deeprooted grasses. Of course, it depends a great deal on this being well started before very heavy rains. Per lb., 30c; 5 lbs., \$1.25; 1 bu. heavy rains. Per of 16 lbs., \$3.50.

F LINKS MIXTURE. We have given much attention to grasses for golf links. The mixture we offer below is composed of such varieties as will thrive here, and are the result of experiments conducted on our grounds, as well as careful watching for several years of the practical results obtained on the golf links. We have always on hand all the natural grasses of Europe and America, and we are familiar with the habits and merits of each. We shall be glad to prescribe for whatever the requirements of the links may be; for poor lands or rich, high and dry, or low and wet. Per lb., 20c; 5 lbs., 85c; 8 lbs., \$1.50; 1 bu. of 16 lbs., \$2.50.

PUTTING GREEN MIXTURE. TING GREEN MIXTURE. A careful study of the requirements for making the most substantial turf for Putting Greens developed the mixture herewith offered by us for this purpose. It has given thorough satisfaction wherever used, and produces a thick, tough, beautiful green turf. The varieties comprising this mixture are all the finest-bladed, low-growing and most hardy kinds, and will maintain their rich, velvety green color throughout the season. Lb., 30c; 5 lbs., \$1.40; 1 bu. of 16 lbs., \$4.00. A careful study of \$4.00.

QUANTITY OF SEED TO SOW.

One pound of these mixtures will sow 15x20 feet, or 300 square feet. Four bushels should be sown to the acre. For renovating use one-half of this quantity. Special directions for making a lawn are given on preceding page.

El Paso Sheep Manure and Pure Bone Meal are the Best Fertilizers for Grass. See Fertilizers.

MIXED GRASSES FOR MEADOWS AND PASTURES.

After years of experimenting we have aided largely in establishing the fact that a thicker and more prolonged growth is produced by a mixture of several varieties than when only one or two are used. There are always certain grasses that are especially adapted to certain kinds of soils, and these are so carefully combined in our mixtures that in our Mixture for Permanent Pastures grasses will be found that mature at intervals during the season, thereby insuring continuous pasturage, while our Mixture for Permanent Meadow will furnish excellent hay as well as late pasturage, while our posed of grasses for light, medium or heavy soils; by light soils we mean that which is more or less of a sandy or gravelly nature; the heavy clay and heavy loans; while the medium is an intermediate between these two. A light, wet soil, with respect to the grasses suited to it, may be considered same as to the heavy soils, and a dry, heavy soil, more as to light soils.

Our best mixture is made entirely with our choice recleaned seeds, while in our second quality we use the same seeds, but without recleaning, and will be equal to the qualities usually to be had on the market. Our mixtures will all have a uniform weight of 16 pounds to the bushel. Quantity to be seed per acre, one and one-half to two bushels, and half this quantity for renovating. In ordering, always state the soil and position on which you wish to use it.

FIRST QUALITY MIXTURES.

For meadows..25c lb.; \$1.50 8 lbs.; \$2.50 bu., 16 lbs. For permanent pasture

20c lb.; \$1.20 8 lbs.; \$2.25 bu., 16 lbs. For pasture and hay in orchard and other shady places..20c lb.; \$1.50 8 lbs.; \$2.50 bu., 16 lbs. other shady

For marshy grounds, 20c lb.; \$1.35 8 lbs.; \$2.50 bu., 16 lbs.

For sandy and rocky grounds, 20c lb.; \$1.35 8 lbs.; \$2.50 bu., 16 lbs.

SECOND QUALITY MIXTURES.

For meadows..20c lb.; \$1.25 8 lbs.; \$2.25 bu., 16 lbs.

For permanent pasture, **20c** lb.; **\$1.25** 8 lbs.; **\$2.00** bu., 16 lbs. For pasture and hay in orchard and other shady places..20c lb.; \$1.25 8 lbs.; \$2.00 bu., 16 lbs.

For marshy grounds, 20c lb.; \$1.25 8 lbs.; \$2.25 bu., 16 lbs.

For sandy and rocky grounds, 20c lb.; \$1.25 8 lbs.; \$2.25 bu., 16 lbs.

GENERAL LIST OF GRASS SEED.

Our prices on light Grass Seeds include burlap bags and delivery to freight or express depots here, purchaser paying transportation charges. Seamless cotton bags holding two bushels, 20c each extra.

The number of pounds to the bushel, in brackets, is the old way of offering Grasses, and is mentioned merely for reference.

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Fage of Cover.



Fescue (Festuca Duriuscula). Perennial. Height, 12 to 24 inches. Thrives well in dry situations. The herbage is decidedly tender, but the flower heads, when ripe, become hard. Sow, if alone, 30 lbs. per acre. Weight, 12 lbs. per bushel.....25c lb.; \$2.00 for 10 lbs.

Meadow Fescue (Festuca Pratensis). (Erroneously called English Blue Grass.) Highly valuable for permanent grass land. Does not, however, attain its full productive power till the second or third year. Relished by live stock, both in hay and pasture, and is one of the most desirable permanent Grasses for general culture; 40 lbs. to the acre (24 lbs. per bu.).

20c lb.; \$1.50 for 10 lbs.; \$12.50 per 100 lbs.

Sheep's Fescue (Festuca Ovina). Perennial. Height varies from 6 to 20 inches. Grows naturally on light, dry, sandy soils. Sheep are very fond of it. Weight, about 14 lbs. per bushel. Sow 30 lbs. per acre. 25c lb.; \$2.00 for 10 lbs.

Johnson Grass (Sorghum Halapense). A perennial; rapid grower; cane-like. Sow at the rate of one bushel per acre, and should be sown in August or September to secure a good crop the following year... 15c lb.; \$1.25 for 10 lbs.

Rhode Island Bent (Agrostis Canina). A fine Grass, chiefly used for pastures and lawns, for which it is one of the best; 12 lbs. per bushel. Sow 40 lbs. per acre it is one of the best; 12 10s. per bushe. 40 lbs. per acre. 30c lb.; \$2.50 for 10 lbs.; \$22.00 per 100 lbs.

Sweet Vernal Grass, True Perennial (Anthoxanthum Odoratum). For a mixture with pasture Grasses it is valuable on account of its vernal growth, and also for continuing to throw up root foliage until late in the autumn. Its chief merit is its fragrant odor, which the leaves emit when partially dry, thus sweetening hay. Sow 3 to 5 lbs. per acre with other Grasses......75c lb.; \$6.50 for 10 lbs.

Sweet Vernal Grass, Annual (Anthoxanthum Odoratum Puelli). Much smaller than the perennial......20c lb.; \$1.65 for 10 lbs.

Timothy (Phleum Pratense, Herd's Grass, Cat's-tail Grass). This Grass stands at the head for meadows. Never use less than a peck to the acre, then up to one-half bushel, as to circumstances. Market Price.

Postage Must be Added if Wanted by Mail.

See Postal Rates, Second Page of Cover.



White Clover.

Red Clover (Trifolium Pratense). In ordering, always state quality desired, otherwise will send the best. Sow 8 to 10 lbs. per acre. Bokhara Clover (Melilotus Alba. Sweet Clover). ways state quality desired, otherwise will send the best. Sow 8 to 10 lbs. per acre.

Bokhara Clover (Melilotus Alba. Sweet Clover).

A rapid-growing, white-flowered sort; a good bee food. Sow 10 to 15 pounds per acre.

25c lb.; \$1.75 for 10 lbs.; \$16.00 per 100 lbs.

Bokhara Clover, Yellow Flowered (Melilotus Indica).

Annual, hulled seed, height, 2 feet. Where a single crop is wanted this is one of the clovers grown. It makes good hay, excellent pasture for cattle and sheep. Will grow in any kind of soil, and being deep rooted remains green in the driest seasons. Advocated by Department of Agriculture as an advance crop for inoculating the soil before sowing alfalfa.

15c lb.; \$1.25 for 10 lbs.; \$10.00 per 100 lbs.

Japan Clover (Lespedeza Striata). It thrives on poor land and produces continual herbage. Not adapted to northern latitudes, as it is only half-hardy. Sow 10 to 12 lbs, per acre.

30c lb.; \$4.75 25 lbs. (bu.)

CLOVERS.

PRICES. Clover prices often vary from week to week, according to market. The prices below represent fair market values when this book is printed and are subject to change. Purchasers of large quantities should write for latest prices. Grain bags, holding two bushels, 20c each extra.

Postage Must be Added if Wanted by Mail. Second Page of Cover. See Postal Rates.

Alfalfa, or Lucerne (Medicago Sativa). Alfalfa once established

MILLETS.

VETCHES.

Vetches, Spring Tares (Vicia Sativa). Sown broadcast at rate of 1 to 1½ bushels; sometimes mixed with oats for soiling.......10c lb.; 75c 13 lbs.; \$2.75 60 lbs.

Sand, Winter or Hairy Vetch (Vicia Villosa). Thrives on poor, arid, sandy soils. Is sown either in fall or spring, and generally mixed with rye as a support to the plants; is perfectly hardy, and the produce is recommended as most nutritious. Should be sown at the rate of 1½ bushels to the acre. (Bushel 60 lbs.)

15c lb.; \$1.00 10 lbs.; \$5.50 60 lbs.



Tennessee Millet.

MISCELLANEOUS FARM SEEDS.

The prices quoted are subject to market fluctuations. Should any article seem high, or when customers are in need of large quantities, we will be pleased to submit samples and quote, on application, the lowest prices that the market will justify at the time. Please state quantities when writing for prices. Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.

DWARF ESSEX RAPE.

DWARF ESSEX RAPE.

A forage plant of highest value. It can be sown in April for an early crop, and for fall crop in July, August and September, and still later further South. In a few weeks from the time of sowing, sheep, hogs or cattle can be turned on it. Under favorable conditions Rape is ready for pasturing sheep or cattle within six weeks from time of sowing, and on an average one acre will carry 12 to 15 sheep six weeks to two months. When on the Rape they should at all times have access to salt. Pigs and cattle are also very fond of it. The plant is a rank grower and should have heavy manuring as well as high cultivation. Any corn soil will grow Rape. Sow the seed by the end of June and the crop can be ready to feed at a season when it is most needed. It does well sown with oats. After oats are cut the Rape grows rapidly. If the soil is rich and clean, sow broadcast; if not so clean, sow in drills and cultivate as for corn. When sown broadcast, use 5 to 6 pounds, and if in drills, 2 to 3 pounds to the acre.

10c lb.; 75c 10 lbs.; \$6.50 100 lbs.

COW PEAS.

(The Great Land Renovator.)

COW PEAS.

(The Great Land Renovator.)

At the time of going to press the market for Cow Peas and Soja Beans is such that it is impossible to name a satisfactory firm price. We will quote special prices on application, or all orders accompanied with the money will be filled at the lowest market price, upon receipt. The value as a fertilizing crop exceeds that of clover, for, in addition to being a larger nitrogen gatherer than the clover, they draw from the subsoil to the surface large amounts of potash and phosphoric acid, thus putting the soil in most excellent condition for following crops. The feeding value of Cow Peas, either green fed as hay or preserved as ensilage, is very high, being considerably above that of Red Clover. The yield of green vines per acre runs ordinarily from 5 to 15 tons.

Sow 1½ to 1¾ bushels per acre, on land thoroughly pulverized and disc or plow with a cultivator of double shovel plow. If wanted for hay, cut when peas are forming, cure as clover. If peas are for fertilizer, sow same quantity after same preparation as for hay; turn under when peas are in bloom. If farmers will first roll and disc peas they will turn under much easier and be more satisfactory. For a fertilizer, especially to be followed by wheat or corn, they are simply the best. Bear in mind that the Southern Cow Peas belong to the Bean family, therefore must not be sown until the ground is thoroughly warm and all danger from frost is past.

Early Black. Matures quickly, best variety for the extreme northern sections of the country.

Whip-Poor-Will. An early variety, tall, upright, medium yield of vines, large yield of peas, for which they are particularly grown. Highly recommended for "hogging down."

The leading variety in the South. Large yield of vines and peas, but require longer season to mature than the former-named va-Clay. rieties.

Era. Seed small, dun colored; earlier than Whip-Poor-Will, but more trailing in habit. A great favorite in many places. Era. New

Mixed Cow Peas. These are splendidly adapted for those who merely wish same for feeding pur-poses, and being mixed, we are able to offer them at a lower price.

SOJA, OR SOY BEANS.

Valuable forage plant; has attracted increasing attention yearly. It is one of the most nutritious of all vegetable products. It will produce a crop of 20 to 30 bushels per acre, and is as easily grown as other beans. For pasturing or feeding as green fodder it is very valuable, and nearly equal to clover for fertilizing. The dry beans, when ground, makes an excellent meal for feeding to milch cows. When roasted and ground they form an excellent substitute for coffee. Sow half a bushel per acre broadcast, or plant in drills 3 feet apart, and 1 to 1½ feet between the plants, dropping 2 or 3 beans in each hill, which will require one galloh per acre.

CANADA FIELD PEAS.

There is no crop of greater value than Field Peas. Whether for fodder, in mixture with oats, sown at the rate of 2 bushels each per acre, or the peas sown alone at the rate of 3 bushels per acre for plowing under. Like all leguminous crops, peas have the power of extracting nitrogen from the air, and the soil from which a crop of peas has been harvested is richer in nitrogen than before the peas were sown upon it. (60 lbs, bushel.)

Goe peck; \$2.25 bushel.

Owing to Market Fluctuations, Will Quote Prices on Application, Stating Quantity Wanted.



SPELTZ.

The heads are somewhat similar to two-rowed barley. For fattening cattle, poultry, horses, sheep, pigs, etc., it is claimed to be ahead of any other grains. Cultivation similar to wheat or oats. Sow at the rate of 50 to 60 lbs, per acre.

5c lb.; \$1.50 for by lbs.; \$2.75 for 100 lbs.

BUCKWHEAT.

Should be sown about the middle of June broadcast, using from ¾ to 1 bushel to the acre.

Japanese. This sort has proven to be much earlier and more productive than any other variety.

40c peck; \$1.25 bu. (50 lbs.)

SILECTED SEED OATS.

Prices on Application.

Broadcast 2 to 3 bushels to the acre.

Bed Rustproof. These are the standard oats of the Southern States, yielding large crops when all other sorts were destroyed by rust. It is a large, heavy, reddish-looking berry.

Winter Turf. Perfectly hardy in the Southern and Middle States. Yields, on good land, from 50 to 70 bushels to the acre of fine, heavy grain, weighing from 35 to 50 pounds to the measured bushel.

Hemp Seed. We will be pleased to quote market prices upon application. Sow at rate of ¾ to 1 bushel per acre.

Flax Seed. Northwestern. Sow at rate of ¾ to 1 bushel per acre.

Market price.

NORTHERN GROWN SEED CORN

Prices Subject to Market Changes. Seamless Bags Holding Two Bushels, 20c Each Extra,

Our seed corn has been grown for us by specialists in Ohio and Indiana for seed, and will be found of the highest grade as to quality and germinating power. Sow eight quarts to the acre. Prices quoted by express or freight, not prepaid.

of the highest grade as to quality and germinating of the highest grade as to quality and germinating by express or freight, not prepaid.

McCullough's Early Prolific. The most prolific white corn. Each stalk bears from two to five ears, average length of ears &½ inches. Stalks range in height from 9 to 12 ft. according to season and fertility of soil. The corn is consequently ideal for ensilage and will be planted largely for that purpose. It matures in 100 days and yielded in 1912, 150 bushels per acre, and no fertilizer of any kind was applied to the land. The year before the same field yielded 50 bushels of Reeds Yellow Dent to the acre. In every test, the yield of McCullough's Early Prolific was at least twice that of the old standard varieties. Supply limited—advise placing orders early. Price, \$1.00 peck; \$1.75 per ½ bu.; \$3.00 per bu.

McCullough's Champion White Dent. The best White Dent Corn. If planted early, say May 10 to 20, it will come nearer making a crop of corn without rain than any other known variety. Makes a wonderful growth as far south as Georgia. In fact, 't will mature in any corn country. It grows a strong, vigorous, deep-rooted stalk, stands up well, and in strong land and good season will make from 100 to 125 bushels per acre. Ears 10 to 12 inches long, well filled at tip and butt.

60c peck (14 lbs.); \$2.00 bushel (56 lbs.)

Reid's Yellow Dent. One of the best varieties of yellow corn grown. Ear medium in size, remarkably uniform, and of a bright yellow color, with solid, deep grain and small, red cob. Has from 18 to 24 rows of kernels on the cob. 50 to 60 grains in the row, and is well filled over the ends, and especially the butt, leaving a small shank, which makes it a great favorite with huskers. Best shredding sort, as it shatters the least of any by actual test.......60c peck; \$2.00 bushel (56 lbs.)

Golden Beauty. Beautiful golden color, strong grower, of remarkable size. The rows are straight and filled out to the extreme end of the cob. Ripes in 110 to 120 days. 50c peck (1

Silver Mine. One of the best yielding White Dent Corns. Cylindrical shape, tapering a little at the tip end; 18 to 20 rows; kernels deep and cobs small. A fine shelling and high yielding variety...50c pk. (14 lbs.); \$1.75 bu. (56 lbs.)

iss (White). Will mature in 90 days, therefore may be sown later than any other variety, and still there is no danger of it being damaged by frost. Produces generally two large ears to the stalk and in good land will yield one hundred bushels to the acre.

56c peck (14 lbs.); \$1.90 bushel (56 lbs.) Peerless (White).

King of the Earliest Dent. of the Earliest Dent. An early yellow corn, adapted for high latitudes; will mature in 80 to 85 days. 50c pk. (14 lbs.); \$1.85 bu. (56 lbs.)

Gold Mine. Early Mine. Early Yellow Dent, ripening only a few days later than King of the Earliest; ears are of good size and symmetrical; grain is very deep; cob small.

50c peck (14 lbs.); \$1.75 bushel (56 lbs.)

Early Mastadon. The largest Early Dent Corn in cultivation. It is 90 to 100-day corn, with long grain, very large ears, and will outyield any corn in the world.

50c peck (14 lbs.); \$1.85 bushel (56 lbs.)

Red Cob Ensilage. A southern type of large, white corn, with deep red cob, strong leafy stalks and short joints. Adapted to all sections of the country, and a general favorite with thousands of dairy farmers.

\$1.20 bu. (56 lbs.); \$11.50 for 10 bu.

Sugar Corn for Ensilage. There is nothing better for green feed or curing for winter than sweet corn. Cattle highly relish it, and when fed on it, keep in fine condition and give an abundance of milk. It has the great merit of being so sweet and palatable that cattle eat every part of the stalks and leaves, and consequently none is wasted. Also excellent for soiling. Sow thickly in drills or broadcast at the rate of 2 to 3 bushels per acre.

\$2.25 per measured bushel.

MANGEL WURZEL; SUGAR BEET; RUTA BAGA; PUMPKIN; ARTICHOKE, ETC. See Garden Seeds.

SELECTED SEED POTATOES

We select our Seed Potatoes in the best northern districts and expressly for seed purposes, prices are liable to vary, we shall be pleased to give quotations on application.

They are put up in barrels of about 2% bushels each. No charge for barrels. Bags 10c each.

Early Ohio (Red River Stock). A week earlier than Early Rose. Cooks dry and mealy.

Early Rose. The leading variety for earliness and productiveness. Early Beauty of Hebron. Ripens w Rose; valuable market variety. Ripens with the Early

Bovee. Extra early; very productive; of fine quality. Flesh white and very dry.

Early Six Weeks. Extra early, oblong in shape; flesh solid; cooks dry and mealy.

Extra early; fine bright red skin; white Triumph. flesh.

Hesh.

Ink's. Flesh fine grained and or careful flavor; very productive.

on Market. Very popular, early, good quality Burbank's.

Chicago Market.

White Star. A large cropper, fine floury texture and delicious flavor.

 $\mathbf{w}_{\mathbf{hite}}$ Elephant. Late. large. enormously productive, and of excellent flavor.

n No. 3. A good late variety and one of the greatest yielders. Shape, large oblong, slightly Carmen No. 3. flattened.

Irish Cobbler. A splendid sort, nearly shape, good quality and heavy producer.

Rural New Yorker. A good late variety of large size, a large cropper, good quality.

SEED SWEET POTATOES. Yellow and Red Jersey, Red Bermuda and Southern Queen. Write for prices. Ready for shipment about April 1. prices. Ready for ship For Plants, see page 24.

MISCELLANEOUS BIRD AND SUNDRY SEEDS

Per lb.	Per Ib.	Per lb.
Black Locust40c	Flax Seed (crushed)10c	Mustard Seed, black10c
Honey Locust40c	Hemp Seed (4 lbs. 25c)10c	Pumpkin Seed15c
Canary Seed10c	Lettuce Seed, for birds20c	Rape Seed (3 lbs. 25c)10c
Mixed Bird Seed (3 lbs. 25c)10c	Maw or Poppy Seed15c	Sunflower Seed (4 lbs. 25c)10c
Celery Seed, for flavoring 30c	Millet, for birds 5c	Watermelon Seed15c
Cuttle Bone (1 oz. 5c)40c	Mustard Seed, white, for pickles 10c	Bird Gravel (3 lbs. pkg.)10c
Flax Seed (4 lbs. 25c)10c		

Postage Must be Added if Wanted by Mail. See Postal Rates, Second Page of Cover.



cCullough's Selected Flower Seeds

Every year we carefully revise our list of flower seeds, add a number of splendid new sorts and discard all inferior varieties. Our collection will be found to contain everything really desirable. The latest and best in the floral world. Our stock of seeds is of the highest possible quality.

ANNUALS attain full growth from seed, flower and die in one year.

BIENNIALS grow from seed one year, bloom and die the next, though some varieties bloom the first season when sown early.

FERENNIALS last for several years, blooming annually after the first season, though some varieties will bloom the first season if sown early.

Discount on Packet Flower Seeds.

For 25 Cents select 6 Five-cent, or 3 Ten-cent pkts. For 50 Cents select Packets to the amount of \$1.30. For \$2.00 select Packets to the amount of \$2.65. For \$3.00 select Packets to the amount of \$2.65.

PLEASE ORDER BY NUMBER. WE PAY THE POSTAGE.

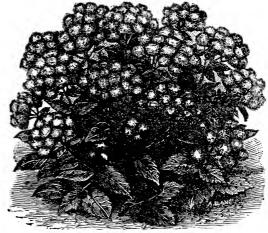


Agrostemma.

- BUTILON. (Flowering Maple.) Elegant flowering perennial shrubs of strong growth and easy cultivation, free-flowering, with various colored, beautiful drooping bell-shaped flowers. Considered indispensable for flowering indoors during the winter and spring months, and useful for bedding out in the summer. Sown indoors any time before April, they will produce plants that will flower outdoors the first season and indoors all winter.

 1 Fine Mixed. Of choice varieties and colors.....10c pkt.
- Ptarmica "The Pearl." One of the best hardy white perennials. Grows about two feet high, and from spring till frost is covered with heads of purest white double flowers. A grand plant for cemetery decoration. Easily grown from seed, flowering the first season if sown early.....10c pkt.
- ACROCLINIUM. A pretty annual "Everlasting," growing about 15 inches high, bearing lovely white or rosy-pink flowers, which, when cut in the bud state, can be dried and used in winter bouquets. A nice thing to grow in a mixed border aside from its use as an everlasting.

 50 pkt
 - Double Mixed
- CUMIA. (Mountain Fringe, Allegheny Vine.) Cirrhosa. A graceful, hardy, biennial climber, but, as it resows itself year after year, it might be considered perennial. The feathery foliage closely resembles that of the Maiden-hair Fern. The flowers are tube-shaped, flesh-colored, somewhat like the Bleeding Heart, and completely cover the plant. For covering trellises, stumps of trees, etc., it is very desirable. Flowers the first year from seed. ADLUMIA. first year from seed...... 5c pkt.
- AGERATUM. (Floss Flower.) One of the very best bedding plants, being literally a sheet of bloom from early summer till frost. Unlike many bedding plants, their flowers are not liable to be spoiled by rain, nor do the colors fade out. The various blue varieties are without doubt the most satisfactory bedding plants of this color for our trying climate. Easily raised from seed, which is usually started in a hotbed or window and transferred to the open ground in May. Can also be sown outdoors in May. also be sown outdoors in May.
 - Blue Perfection. Dwarf compact growth, large dark-blue flowers: valuable for borders and bedding 5c pkt.
 - Little Dorrit. Azure blue, very floriferous, % ft. 5c pkt.
 - 8 Album. White, profuse bloomer, 11/2 ft. 5c pkt.



Ageratum-Blue Perfection.

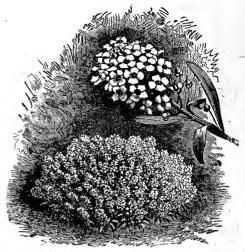
- AGROSTEMMA. (Rose of Heaven.) An attractive free-flowering, hardy perennial of easy culture producing flowers on long slender stems like a single pink. Blooms the first season. Fine for cutting; 1 to 2 feet.
 - Mixed Varieties Allegheny Vine .- (See Adlumia.)

ALYSSUM.

Pretty little plants for beds, vases, baskets, edgings or rockwork, blooming profusely all summer; useful also for winter-flowering. Very sweetly scented. Hardy annual.

- inter-flowering. Very sweetly scented. Hardy annual.

 10 Little Gem, or Carpet of Snow. Of dwarf, compact habit, 4 to 6 inches in height. It begins to bloom when quite small, and the plants are a solid mass of white from spring to late in autumn, and undoubtedly the best white-flowering edging plant in the list. (See cut.) 50 cts. per oz.......5c pkt.
- - Caudatus. (Love Lies Bleeding.) Blood-red; droop
- **AMMOBIUM.** One of the hardiest of everlastings, valuable for forming winter bouquets, in connection with grasses and other everlastings. The flowers should be gathered before fully opened. Hardy annual.
 - 14 Alatum Grandiflorum. White, large flower...5c pkt.
- **ELOPSIS.** A hardy perennial climber, with olive green leaves, which turn to scarlet in the autumn. The best and most popular climber for covering brick or stone walls. AMPELOPSIS.
 - Veitchii. (Boston or Japanese Ivy.)..10c pkt.
- ARCTOTIS (African Daisy.)
- ASPARAGUS.
 - 17 Plumosus Nanus. Plumosus Nanus. (Asparagus Fern.) This graceful climbing Asparagus has fine foliage, and will last for weeks after being cut. It is an excellent house plant10c pkt.



Alyssum-Little Gem.

Sprengeri. (Emerald Feather.) One of the best plants to grow in baskets, for greenhouse or for outdoors in the summer. The fronds frequently grow 4 feet long, and are now considered indispensable in all fine decorations; grown roadily from seed tions; grows readily from seed 10c pkt.

ANTIRRHINUM.

(Snapdragon.)

(Snapdragon.)

The Snapdragon is one of our finest perennials. If planted early will flower the first year as an annual. The newer sorts are flowers of great variety of colors and markings and brilliancy, making rich spikes, beautiful for cutting. Sow seed in the open ground, transplanting to one foot apart each way. They will bloom in July and August.

- Giant-Flowered-Tall. Flowers nearly double the size of the older sorts.

 19 Giant Queen Victoria. Very large; fine white.

 10c ukt. Giant Delilah. White and carmine...10c pkt.
 - Giant Firefly. Scarlet and white....10c pkt.
 Giant Purple King. A new variety with immense deep glowing purple flowers...10c pkt. 21

 - Giant Romeo. Beautiful dark rose...10c pkt.
 - 24
 - Giant Yellow Shades10c pkt. 25 Giant Scarlet and Crimson10c pkt. 26
- 27 Giant Mixed Colors. Tall growing ... 5c pkt.





Antirrhinum-Dwarf.

Popular free-flowering plants, blooming profusely through the spring and early summer. For planting in permanent borders or along the edges of shrubbery this old-fashioned favorite is one of the best of all hardy plants. Hardy prennial, 1 to 3 feet.

- Alba Flora Plena. Beautiful double pure white variety, 1½ feet 5c pkt.

- Long-Spurred "Rose Queen". A beautiful variety, producing in great profusion very graceful, large-flowered, long-spurred flowers, shading from light pink to dark rose, with white center and yellow anthers.100 pkt. 36
- Double Varieties Mixed. Very choice...... 5c pkt. Single Varieties Mixed. The best sorts...... 5c pkt.



MISCELLANEOUS ASTERS.

- McCullough's "Premier" Asters. This mix-39
- Pink Beauty. A magnificent variety of strong, free, upright growth, blooming from early in August until well on in September, with long, strong stems. Chrysanthemum shape, the inner petals incurved, outer reflexed; color a soft, delicate, blush pink; a shade that is always in demand for cutting.........10c pkt.
- Daybreak. Of symmetrical growth; attains a height of 18 inches, and produces during August perfect globe-shaped flowers, of a delicate pink tint10c pkt.
- Lavender Gem. One of the most beautiful Asters. Of comet type, with large, artistic, loosely-arranged flowers of the most charming shade of lavender imaginable......10c pkt.
- **Purity.** Identical in every way to Daybreak, but of pure glistening white......10c pkt.
- **Snowdrift.** A most valuable variety, coming into flower in July, with superb plumy snowwhite flowers of the Ostrich feather type.
- Royal Purple. The flowers are large with full centers well covered, petals flat and incurved. Color a rich shade of Royal Purple. This variety is distinct in growth from the branching Asters. The side stems start from the main stem close to the ground, and not in side shoots from the main stem....10c pkt.

 Giant Branching Comet. Magnificent flowers
- Crego's Giant, White10c pkt. Crego's Giant, Pink10c pkt.
- QUEEN OF THE MARKET. The earliest flowering first-class Aster, coming into flower in July, or fully three weeks in advance of the general run; of branching habit; flowers of good size and borne on long stems, making them exceeding valuable for cutting; excellent for growing under glass; 1 foot.

	Per pkt.		Per pkt			
50	Per pkt. Bright Rose5c	53	Per pkt. Pink, Light5c			
51	Lavender5c	54	Purple5c			
52	White5c	55	Mixed Colors5c			

McCULLOUGH'S **SELECTED** ASTERS.

A STERS are one of the most important summer and autumn flowers, and receive special care at our hands. Our list comprises only such sorts as can be planted with perfect confidence that nothing better is procurable, no matter at what price or from what source.

The early sorts begin blooming in July, followed by the mid-season kinds, which flower during August; then the late-flowering varieties, which are at their best through September. It is quite easy, therefore, with a little care in the selection of the varieties, to have Asters in flower from the first days in July until hard frost.

Asters will thrive in any good soil, prepared in the same way as you would for a crop of vegetables, but it is well to remember that any extra care taken in the preparation of the soil is repaid by finer plants, larger blooms, with longer stems and more profuse flowering. They should have an open, sunny position, and prefer a good, heavy, loamy soil, enriched with a liberal quantity of thoroughly rotted manure, and the addition of wood ashes or air-slaked lime, and we do not advise growing them on the same ground two years in succession. Half hardy annuals. annuals.

SEMPLE'S BRANCHING ASTERS: This superb strain is of American origin, and is especially adapted to our climatic conditions.

The plants form strong, branching bushes, 2 to 2½ feet high, bearing on long, strong stems their handsome Chrysanthemum-like flowers, which, under ordinary cultivation, average 4 inches across. The form of the flowers, together with the length of the stems, places them at the head of Asters for cutting. They come into bloom from two to three weeks after the average type, usually being at their best during September. at their best during September.

Per pkt.			Per pki			
56	Azure Blue10c	59	Rose	Pink	10c	
	Pale Lavender. 10c	60	Shell	Pink .	10c	
58	Deep Purple .10c	61	\mathbf{P} ure	White	10c	

Finest Mixed. Containing many more colors than mentioned above10c pkt. CARLSON or INVINCIBLE ASTERS. The

SUM OF INVINCIBLE ASTERS. The early flowering branching Aster. A selection of the Paeony flowered type. The flowers are large and firm; the stems long and stiff, and the colors decided and pleasing. The plants grow about 24 inches high and come in bloom about ten days before the Semple's Branching Asters.

		Per pkt.	Per pkt.			
6	33	Lavender10c	66	V iolet	Blue	10c
6	4	Daybreak Pink 10c	67	\mathbf{W} hite		10c
e	55	Rose Pink10c	68	Mixed.	All	colors.

EARLY HOHENZOLLERN ASTERS. The type of the Giant Comet, or Ostrich Feather Asters. Much larger than the Giant Comet, the petals longer, more curled and twisted, and produced in greater abundance. Borne on long stems.

	Per pkt.			1	er pet.
69	Brilliant Rose 10c	72	Pink		10c
70	Crimson10c	73	White		10c
71	Light Blue10c	74	Mixed.	All	colors.

IMPROVED VICTORIA ASTERS. An unrivaled and oved victoria astees. An unrivaled and favorite class. The flowers are of great size, measuring four inches and over across, beautifully imbricated and perfect in form, of great richness and variety of color; from twenty to forty on a plant; height, 1½ ft.

75	Per pkt. Crimson10c	79	Scarlet	Per pkt.
76	Dark Blue10c	80	White	10c
77	Light Blue10c	81	Finest	Mixed. All
78	Rose10c		colors	10c



BALSAMS.

(Lady Slipper, or Touch-Me-Not.)

One of the oldest and best known summer-blooming annuals, of easy culture. Desirable for garden or pot culture. The soil should be of the richest and best quality. Set them about 15 inches apart, and give them plenty of manure-water. Tender annuals; 2 feet.

McCullough's Premier Mixed. Unrivaled for the great variety of color and size of flower; includes all the most desirable shades and colors..10c pkt.

Double Camellia Flowered, Mixed. Of perfect form, beautiful colors......10c pkt.

Prince Bismark. Brilliant salmon rose flowers; very double, of finest camellia-flowered type...loe pkt. White Perfection. The finest pure white grown; flowers unusually large, solid and double..loe pkt.

Choice Double Mixed. All kinds. oz. 50c....5c pkt.

BELLIS.

(English Daisy.)

A favorite perennial plant, which will stand the winter if given the protection of a few leaves or litter; in bloom from early spring until well on in the summer. The seed we offer is saved from the finest double varieties; easily raised from seed; usually sown in August, but can be sown in spring, and for best results should be sown each year; 4 inches. (See cut.)

Longfellow. Large, double, dark pink flowers; with long,

1 1/2

Bachelor's Button.

Blue-Bottle or Ragged Sailor. (See Cyanus.)

Balsam Apple and Pear. (See Momordica.)

Balloon Vine. (See Cardiospermum.)

Black-Eyed Susan. Thunbergia.)

BEGONIAS.

(Everblooming Bedding Varieties.)

91 Vernon. Bright orange carmine flowers, deep

92 Vernon Grandiflora. A large-flowering form of the above, with which it is identical in growth, floriferousness and color. The flower is nearly twice the size of the type.................15c pkt.

93 Semperflorens, Single Mixed. This mixture contains all the best varieties, ranging in color from pure white to the deepest crimson; splendid.....

BRACHYCOME.

(Swan River Daisy.)

Free-flowering, dwarf-growing plants, covered during the greater part of the summer with a profusion of pretty, Cineraria-like flowers. Suitable for edgings and small beds, or pot culture. Half-hardy annual; I foot.

94 Mixed. Light blue and white......5c pkt.

BROWALLIA.

Free-flowering plants, covered with bright blue flowers, which continue to bloom during the summer and autumn. Sow during April and May, in good, light, rich soil. Half-hardy annual. Mixed..5c pkt.



BRYONOPSIS.

A beautiful annual climber of the gourd species, with ivy-like pale green foliage and showy fruit, first green striped white, turning when ripe to bright scarlet striped white. 96 Laciniosa. 10 feet...5c pkt.

TUBEROUS-ROOTED BEGONIAS.

(See Bulbs.)



Calliopsis.



Empress Candytuft

CARNATION

Carnations are gen-eral favorites for their delicious fragrance and richness of colors. They are indispensable both for greenhouse culture in winter and for the garden in summer. The Marguerite type are the best for summer flowering.

rine Double Mixed. A 104 Fine A good for outstrain door culture.
10c pkt.

Marguerite Gi-ant. These are 105 deservedly the popular Carnation with the amateur, as they begin flow-ering in four months from time of sowing with : in fou.
from time of sowing. Finest Mixed.

5c pkt.



Marguerite Carnation.

CARDIOSPERMUM.

A rapid growing annual climber; succeeds best in light soil; seed vessels look like miniature balloons.

106 Cardiospermum. (Love-in-a-Puff.)...........5c pkt.

(Indian Shot.) CANNA.

Soak the seeds in warm water until they show evidence of swelling; then sow in sandy loam, and place in a hotbed; when up to the second leaf, pot off singly.

107 Mixed. Crozy's finest sorts. Per oz., 20c...5c pkt.

(Canterbury Bells.) CAMPANULA.

This old-fashioned flower is a favorite with all. Stately nd show, and of the easiest growth. Hardy biennials.

108 Medium (Single Canterbury Bells). The old-fashioned sort, with beautiful, large, bell-shaped blosoms. Single Mixed. All colors...........5c pkt.

109 Calycanthema (Cup and Saucer Canterbury Bells). This is unquestionably the finest type of this old-fashioned and much-prized garden plant. Finest Mixed, All colors of the Cup and Saucer type.5c pkt. 108

109

CANDYTUFT.

CALLIOPSIS.

Showy and beautiful free-flowering annuals, blooming all summer and excellent for cutting; 1½ to 2 feet.

7 Golden Waye. A very showy sort, with

Golden Wave. A very showy sort, with bright, golden-yellow flowers, with small, dark centers, blooming profusely. 5c pkt. Finest Mixed 5c pkt.

COREOPSIS.

Lanceolata Grandiflora. One of the finest hardy garden plants forming large clumps. grows 2 to 3 feet high and increasing in beauty, luxuriance and floriferousness each year; it flowers the first season from seed sown early. It is an improved variety of the lanceolata type, producing long-stemmed, rich, yellow flowers, flowering in profusion for a long period during the summer; unequaled for cutting; grows anywhere, Hardy perennial..........10c pkt. where. Hardy perennial......10c pkt.

CALENDULA.

(Pot Marigold.)

Showy, free-flowering hardy annuals, growing in any good garden soil, producing a fine effect in beds or mixed borders and continuing in bloom until killed by frost; valuable also for pot culture: 1 foot.

Prince of Orange. This variety surpasses in beauty the well known Calendula Meteor. The stripes around each petal are of a deep orange color, making a brilliant approximately.

pearance
Pure Gold. A grand variety, with double extra large flowers of a pure golden yellow.5c pkt.

Fine Double Mixed. Contains the choicest sorts.

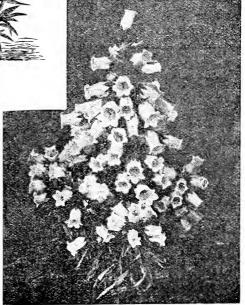
5c pkt. 102

CALCEOLARIA.

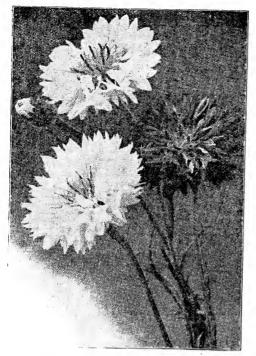
Unsurpassed for pot culture in the greenhouse or conservatory, producing their brilliant flowers in great profusion and variety.

103 **Hybrida Grandifiora.** Mixed varieties......25c pkt.

Castor Oil Bean. (See Ricinus.) California Poppy. (See Eschscholtzia.)



Campanula Medium (Canterbury Bells.)



Centaurea Cyanus (Cornflower).

CELOSIA PLUMOSA.

(Feathered Cockscomb.)
Make fine plants for large beds
or groups, and the plumes or flowers can be cut and dried for winers can bouldnets

Thompson's Superb (Triomphe de l'Exposition). Of pyramidal growth, attaining a height of 3 feet, and producing graceful, feathery plumes of the most brilliant crimson...10c pkt.
Thompsoni Magnifica. Sim-

ilar to the preceding except in colors, which vary in the most magnificent cept in colors, which vary in the most magnificent shades, ranging from the clearest yellow to the darkest blood-red.....15c pkt. Golden Plume, Bright, golden-yellow plumes.

10c pkt.
Plumosa, Mixed. Feathered
varieties in all colors, 5c pkt.

CENTAUREAS.

Under this name is included such popular annuals as the Cornflowers, Sweet Sultans, etc. They are favorites in all sections of the country, are perfectly hardy, will grow and do well almost anywhere, and are much in de-mand as cut flowers.

CENTAUREA CYANUS

Ragged Sailor, Cornflower or Blue Bottle. Very attractive flowers of easiest culture, one of the most graceful of all the old fashioned flowers. Sow early in the spring in the beds where they are to

CENTAUREA IMPERIALIS

Royal Sweet Sultans.

This beautiful class is undoubtedly the finest of all Sweet Sultans for cut-flower purposes. The sweet-scented, artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. It is best, in this latitude, to sow very early in the spring, so that they may perfect their flowers before very bot weather comes.

 Rose
 10c pkt.

 Lavender
 10c pkt.

 Pure White
 10c pkt.

 Finest Mixed Colors
 5c pkt.
 118 119 120

WHITE-LEAVED CENTAUREAS.

(Dusty Millers.)

Fine for bedding, vases, hanging-baskets and pots; also extensively used for margins. As an edging to a bed of dark-leaved Cannas or Scarlet Sage, these are particularly effective. Sow the seed early indoors and transplant in

122 Candidissima. white 10c pkt. Gymnocarpa. Fine-cut silvery foliage. 10c pkt.

CELOSIA, OR COCKSCOMB.

Free - blooming. Free - blooming, graceful plants, growing best in rather light soil, not too rich, producing beautiful comb-shaped flowers; grown in pots, they are fine for the greenhouse or conservatory. Half-hardy annuals.

124 Glasgow Prize. A superb sort with engr-

Glasgow Prize. A superb sort, with enormous rich, deep crimson combs....10c pkt.

Dwarf Mixed. Large solid heads of bloom.

5c pkt.



Celosia. Glasgow Prize.

CENTROSEMA.

(The Butterfly Pea.)

Interesting and beautiful hardy perennial vine of rare and exquisite beauty. It blooms early in June from seed sown in April, and bears in the greatest profusion inverted pea-shaped flowers, from 1½ to 2½ inches in diameter, ranging in color from a rosy violet to a reddish purple. 10c pkt.

CINERARIA.

A well known greenhouse plant, having a range and brights of color scarcely surpassed. It may be had in bloom

Seeds are different from other merchandise. The real value of seeds can only be known after months of labor. Buy your seeds of a reliable seed house with a reputation back of it. Seeds of real merit must be grown and sold by practical, trained seedsmen, with a reputation made and to be maintained.



Cineraria Hybrida Grandiflora.

CHRYSANTHEMUMS. ANNUAL VARIETIES

Showy and effective garden favorites, extensively grown for cut flowers. The hardy annuals are summer-flowering border plants, and quite distinct from the hardy perennial and autumn flowering

PERENNIAL VARIETIES.

"Shasta Daisy." A grand large-flowering Daisy, hardy, robust growth and produces larger and finer flowers each season as the plants increase in strength. The flowers measure four inches in diameter, and while single have three or more rows of long, slender, snowywhite petals surrounding a small golden yellow center or eye. They are especially useful as cut flowers as well as showy bloomers for planting in beds or borders of perennial or hardy flowers. Selected Seed, much superior to the original strain..........10c pkt.

Prutescens Grandiflorum ("Paris Daisy," or Marguerite). White, yellow eye. 136

n......10c pkt.
White, yellow eye. 137 10c pkt.

138

Japanese Hybrids.
The seed here of-fered has been saved 139 from a magnificent collection. Seed sown in spring will produce flowering by fall. plants

Hardy Pompon. A fine strain of the old-fashioned hardy fall-flowering sorts. fall-flowering sorts, with double button-like blossoms. Mixed colors...10c pkt.

CLEOME.

(Giant Spider Flower.)

Pungens. Singularlooking, rose-color-ed flowers; the sta-mens look like spiders' legs, and present a very attractive appearance, annual, 3 feet. This plant is now used extensively in many extensively in many of the public parks, planted a many pranted a mong shrubbery, and shrubbery, very effective. 5c pkt.



Single Annual Chrysanthemums.

CONVOLVULUS.

(Morning Glory.)

MAJOR, OR CLIMBING VARIETIES.

Deservedly very popular, as they are one of the most free-flowering and rapid-growing plants in cultivation, thriving in almost any situation; the beauty and delicacy of their brilliant flowers are unsurpassed; annuals; 15 feet.

cacy of their brilliant nowers and als; 15 feet.

143 Morning Glory, Mixed. All colors. Per oz., 15c.

15c pkt.

144 Japanese Morning Glory. The flowers are of giantic size, exquisite variety of colors and magnetic size.

15c pkt.

164 The flowers measure in the flowers measure in the flowers measure.

COBAEA SCANDENS.



COLEUS.

Our strain hybrid varieties produces the fin-est colored, most est colored, most attractive and no-vel foliage plants for house or gar-den culture. A most interesting most interesting subject to subject to grow from seed. Easily raised. Sow in March or April.

142 Mixed. 25c pkt.

CYPRESS VINE.

One of the most summer popular climbers; flowers small, thickly set in delicate fern-like foliage, Halt hardy annual. set. Half

5c pkt. 147 Mixed Colors. Oz., 30c.

Columbine. Aquilegia.)

5c pkt.

Coreopsis. (See Calliopsis.)

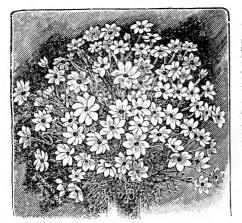


FLOWER SEED BY WEIGHT.

 π_e carry a of large stock flower seeds and can furnish anv quantity desired of any sort. Send us your list for estimate.



Japanese Morning Glory.



Cosmos.

COSMOS.

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decoration when other flowers are scarce. Should be sown in spring in the open ground, when danger of frost is past, or the seed may be started under cover and afterwards transplanted. Plant not less than 18 inches apart in rows or in masses in beds. When the plants are about a foot high the tops should be pinched out to induce a bushy growth. They prefer a rather light, not too rich soil, but do well almost anywhere anywhere

Mammoth Perfection Cosmos. A magnificent selection, bearing flowers of mammoth size and perfect form, and representing the highest developments in Cosmos to date. We offer it

in the following colors:

TTO	ormson. Rich and deepbc pkt.
149	Light Pink. A popular color
150	Pure White5c pkt.
151	Mixed Mammoth Perfection, 1/4 oz., 20c5c pkt.
152	Giant-flowering "Lady Lenox." The latest development
	in this popular autumn flower, bears gigantic flowers,
	with wide, overlapping petals of splendid substance.
	making a perfectly circular flower, which is borne on
	very long stems, in color a beautiful deep rosy-pink.
	The plant is of strong, vigorous growth10c pkt.

CYCLAMEN.

popular pot-plant for winter spring-flowering, blooms are freely produced and last a time. Seedlings bloom in and verv lon eight to ten months.

Giant-flowered (Persicum Best strain; giganteum). orchid-flowering. Mixed 25c pkt.

DAISIES.

(See Bellis.)

BOOKS ON HORTICULTURE.

See list on inside of back cover.

DAHLIA.

Dahlias are easily grown from seed and bloom the first season. The earlier they are started the better, which can be done nicely in a box in a sunny window or the greenhouse. Some specimens grown from seed are fully equal to many of the named sorts, and there is always the chance of getting some entirely new varieties. The Single Dahlias are being planted more extensively every year; they are quick and profuse bloomers, and their colors are especially rich and brilliant. Tuberousrooted half-hardy perennials; protect the roots during winter in a dry cellar in sand.

159 Large-Flowering Choicest Double Mixed. This ele-

161

162

163

DIGITALIS.

(Foxglove.)



Cyclamen.

EXTRA EARLY COSMOS. Seeds sown in the open ground pro-

seeds sown in the open ground produced plants that were covered with bloom two months before the late-flowering kinds. While the flowers are not so large as the late sort, they are of good size, and will undoubtedly perfect their flowers in the most their flowers in northerly States.

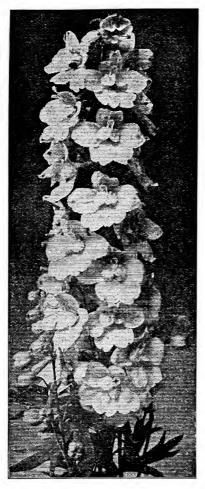
156 Pure White....10c pkt. 157 Mixed, Early Cosmos. All colors, ¼ oz., 25c; 10c pkt.

Flower Seeds by Weight. We carry a large stock of Flower Seeds and can furnish any quantity desired of any

Send your list for estimate.



Double Dahlias.



Delphinium, Giant Hybrids.

DIANTHUS, OR PINKS.

This elegant family contains many of the most valuable and popular flowers in cultivation. All the sorts classed as annuals may be sown directly in the garden as soon as danger from frost is past, and will in a short time become a mass of bloom, and so remain all summer. Elegant as cut flowers for bouquets, as the stems are good. Grow about 1 foot high, and are of easiest culture.

DOUBLE ANNUAL PINKS.

- **Heddewigi Diadematis fi. pl.** (Double Diadem Japan Pink). Densely double flowers in beautiful tints of crimson. lilac, purple, outer edges fringed with white...............................5c pkt.

SINGLE ANNUAL PINKS.

- 170 Dianthus Laciniatus Nanus (New Hybrids). This is a grand new strain of the annual Pinks, with laciniated or fringed petals. The flowers vary in shade from white to deep rose and even to purplish red; are all tinged more or less with bright salmony red or salmony scarlet. The plants grow only about 10 inches high and are remarkable for their free-flowering character. ering character......5c pkt.
- HARDY GARDEN, or CLOVE PINKS. This splendid class of hardy perennial Pinks should be in all gardens. They have the delightful clove fragrance.
- lightful clove fragrance.

 Frew Double Large-Flowering Grass, or Spice Pinks (Plumarius Semperflorens, Fl. Pl.). One foot high. The flowers, which are beautifully fringed, are much larger and more double than the old varieties, while the colors are far richer, including a large variety of colors and markings not known to the old-fashioned Pinks. Many are exquisitely spotted and splashed. They emit a delightful, sweet-scented, spicy odor. Perfectly hardy, requiring only the ordinary culture of Pinks. They increase in size and beauty every year. Bloom profusely during the spring and early summer. 15c pkt.
- New Single Large-Flowering Grass, or Spice Pink. Mixed. Same as above, only single

DELPHINIUM.

(Hardy Perennial Larkspurs.)

One of the most exquisite blue-tinted flowers that we have. Very effective planted in beds or masses, in borders, or better than all in combination with white lilies, blooming at the same time as the exquisite Lilium Candidum. If picked freely and not allowed to go to seed, they will continue blooming all summer. Plant 1½ to 2 feet apart each way. Perennial varieties should be sown in the fall or very early in the spring, transplanting to the open ground.

- New Giant-Flowering Hybrids. These magnificent Hybrids, the grandest of Delphiniums in existence, produce beautiful spikes of immense flowers, single, semi-double and double. Flower spikes are from 2 to 3 feet in length. The colors are very beautiful, ranging from pure white through all the shades of lavender and blue. Mixed Colors......10c pkt.
- Elatum (Giant Bee Larkspur). Clear, blue flowers, 3 feet.
- Formosum. Elegant spikes of the richest dark-blue flowers, with a white center; especially fine for cutting; 4 feet.5c pkt.
- Annual Delphiniums. (See Larkspur.)

DIMORPHOTHECA (African Golden Daisy).

- 178 Aurantiaca. An extremely showy annual Daisy from South Africa, which seems to suit our climatic conditions perfectly. The bushy plants grow 12 to 15 inches high. The flowers, which are 2½ inches and over across, are a unique, rich, glossy orange-gold, with dark disc and halo. These glitter in the sunshine and present a magnificent sight when in full bloom. Seed may be sown in the same way as Asters or Petunias, and should have a dry, sunny position. They bloom the greater part of the summer and fall.......10c pkt.

 DOLICHOS (Hyacinth Bean). A rapid-growing annual climber, flowering freely in erect racemes, followed by ornamental seedpods; for covering arbors, trellises, etc. Sow the seed in the garden in May, where they are to remain; 10 feet.

 179 Finest Mixed. Very choice mixture of all the best climbing
- Finest Mixed. varieties.



Dianthus Chinensis.

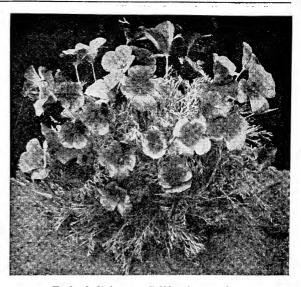
DUSTY MILLER. (See Centaurea.)

ESCHSCHOLTZIA.

5c pkt.

EUPHORBIA. Strong-growing annuals, suitable for beds of tall-growing plants or mixed borders; the flowers are inconspicuous; the foliage, however, is exceedingly orna-





Eschscholtzias, or California Poppies.

FEVERFEW. (See Pyrethrum.)
FORGET-ME-NOT. (See Myosotis.)
FOXGLOVE. (See Digitalis.)

GERANIUM.

(Pelargonium.)

GAILLARDIA.

(Blanket Flower.)

(Blanket Flower.)

Annual Varieties.

Splendid showy annuals; in bloom from early summer till November; excellent for beds, borders or for cutting; should be sown where they are to bloom; 1½ feet.

190 Picta. Crimson and orange......5c pkt.

191 Picta Lorenziana. A charming, profuse, double-flowering strain; mixed colors. 5c pkt.

192 Picta Mixed. Single sorts; fine colors.

5c pkt.

Hardy Perennial Varieties.

The following are among the showiest and most effective hardy perennial plants, and should find a place in every hardy border. They thrive in almost any position or soil, require little or no protection and take care of themselves. If sown early they begin flowering in July, continuing a mass of bloom until frost; fine for cutting; 2 feet.

193 Kelway's Hybrids

tinuing a mass of bloom until frost; fine for cutting; 2 feet.

Gaillardia, Kelway's Hybrid.

Gaillardia, Kelway's Hybrid.

193 Kelway's Hybrids. The finest strain of Perennial Gaillardias. The flowers are of the foliage.

194 Grandiflora Comipacta. A compact variety, forming bushy plants 12 to 15 inches high, and bearing its long-stemmed flowers well above the foliage.

195 Grandiflora Oculata. Pale sulphur, bright marcon eye.

196 GODETIA. Beautiful garden annual, of easy culture in any good soil. Large flowers, embracing a great variety of rich colors. Can be grown in pots; 1½ feet. Hardy annual.

GOMPHRENA (Globe Amaranth). A desirable control of the foliage.

50 nkt



Gourds.

217

ORNAMENTAL GOURDS.

Calabash, or Dipper. Long, shim handle
Dish Cloth. This variety is very ornamental, with clusters of large, yellow flowers. The fruit, when dried, is used as a dish cloth5c pkt.
Giant Bottle. Large and ornamental5c pkt.
Hercules Club. A curious sort. Club-shaped5c pkt.
Japanese Nest Egg. White; fac-simile of an egg; do not crack, and are not injured by heat or cold. Very ornamental climber5c pkt.
Orange. The well-known mock orange
Pear-shaped. Green and white striped
African Pipe. The stem end of the fruits are much used in making pipes. 5c pkt. Mixed Varieties. All kinds; per oz., 25c

ORNAMENTAL GRASSES.

nkt. 210

Paniculata.

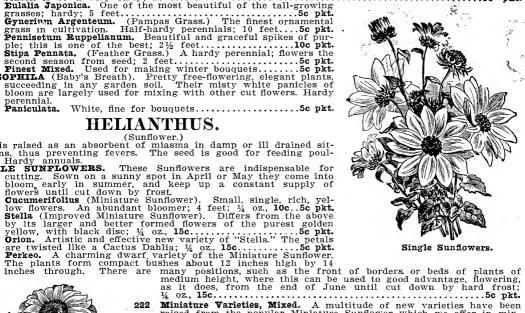
HELIANTHUS.

(Sunflower.)

It is raised as an absorbent of miasma in damp or ill drained situations, thus preventing fevers. The seed is good for feeding poultry. Hardy annuals.

226

227





Sunflowers.

Miniature Varieties, Mixed. A multitude of new varieties have been raised from the popular Miniature Sunflower which we offer in mixture. They all differ from the parent, most of them being larger, and many with curiously twisted petals. The prevailing colors are pale yellow, golden and creamy white, some with black centers, and all beautiful; for cutting they are indispensable; ¼ oz., 15c....5c pkt.

Double Sunflowers.

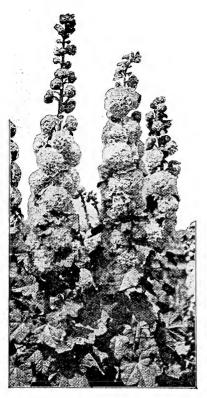
Crysanthemum-Flowered. An excellent plant for the lawn or shrubberies where color effect is desired. The plants grow 6 to 7 feet and produce a great number of double flowers. On account of their size, 223 produce a great number of double howers. On account of this long stems and color the flowers are well adapted for vases; oz., 25c.
5c pkt.

Globosus Fistulosus (Dahlia Sunflower). Flowers large, double, of a rich saffron color; 6 feet; oz., 25c.....................5c pkt.

Mammoth Russian. Extra large flowers, with an abundance of seed; 224 oz., 10c......5c pkt.

Hardy Perennial Sunflowers.

Mixed. Contains the finest single flowering hardy perennial sorts, including such varieties as Maximilliana, Miss Mellish, Orgyalis, Tomentosus, etc., etc. Seeds sown early will produce flowering plants the first year; as subjects for the hardy border, as well as for cutting. they are of great value.....



Chater's Prize Hollyhocks.

HOLLYHOCK.

Chater's Double Scarlet ... 10c pkt.
Chater's Double White ... 10c pkt.
Chater's Double Yellow ... 10c pkt. 231

232 233

Everblooming. Can be treated as annuals, the seeds may be started in the house or hotbed in March or April, and will commence to flower in July, and stay in flower until late in the season. Colors vary from snowy white, rosy carmine, yellow, blood-red to the deepest black in single; also in semi-double and double flowers. Plants branch out freely.10c pkt.

OTROPE. A half-hardy perennial, flowering during the whole season; its delightful perfume makes it a desirable bouquet flower; a splendid bedding plant, or can be trained as a

Crimson Eye. Flowers of the largest size, pure white, with large spot of velvety crimson in the center of each flower. Hardy perennial; flowers the first year from seed sown early. Mallow Marvels (Meehan's). Immense flowers from 8 to 10 inches in diameter, in following colors; fiery crimson, blood red, shell pink and white. Their great beauty surpass all other perennials in profusion of bloom and brilliancy of color. Of herbaceous character they come up year after year and are absolutely hardy. In bloom from July to October.

HONESTY (Moonwort, Satin Flower). Early free-flowering plants. Admired for their silver-like seed pods. Hardy biennial.

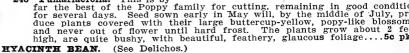
Lunaria Biennis......5c pkt. HUMULUS (Japanese Hop). Annual climbing Hop, of rapid growth, valuable for covering trellises and verandas. Tender annual.

HUNNEMANNIA (Giant Yellow Tulip Poppy, or Bush Es-chscholtzia).

Fumariaefolia. This is by far the best of the Poppy family for cutting, remaining in good condition for several days. Seed sown early in May will, by the middle of July, produce plants covered with their large buttercup-yellow, popy-like blossoms, and never out of flower until hard frost. The plants grow about 2 feet high, are quite bushy, with beautiful, feathery, glaucous foliage....5c pkt.



Heliotrope.



Humulus Japonicus Variegatus.

IMPATIENS (Sultan's or Zanzibar Balsam). Charming plants for the decoration of the greenhouse or dinner table, producing bright, waxy-looking flowers profusely and almost continuously. The young seedlings should be carefully handled, as they are exceedingly brittle at outset

the outset.

Holsti. It forms elegant bushes 1½ feet in height. The flowers measure 1½ inches across and are of a brilliant vermillion color. In a half-shady situation, the plants grow luxuriantly and form effective and showy flower beds, also an excellent pot plant. 15c pkt. Sultana Hybrida. Beautiful hybrids. Varying shades of color, from delicate pink to the deepest red.10c pkt. 15c (Hardy Conductate) 247

248

IBERIS (Hardy Candytuft).
 249 Gibraltarica Hybrida. White, shading to lilac. 10c pkt.
 250 Sempervirens. A profuse white-blooming, hardy perenial, coming in flower early in the spring; much used for cemeteries, rockeries, etc.; 1 foot......5c pkt.

ICE PLANT. Handsome and curious plants for hanging baskets. rock-work, vases and edgings. The leaves and kets, rock-work, vases and edgings. The leaves and stems are covered with crystaline globules, giving it the appearance of being covered with ice. Succeeds best in a sandy soil and warm situation. Half hardy. Mesembryanthemum. Crystallinum (Ice Plant)..5c pkt.

MOON FLOWER, ETC.

(Ipomoea.)

Climbers of rapid growth, with beautiful and varied flowers; for covering walls, trellises, arbors or stumps of trees they are invaluable.

are invaluate.

Cross Bred or Hybrid Moon Flower. At night and during dull days the plants are covered with an abundance of large, pure-white, fragrant flowers 5 to 6 inches in diameter. It is a rapid grower, and within a few months will grow as much as 40 feet. To insure germination, take a sharp knife and cut a small nick in shell of each seed, and soak in lukewarm water for about 4 hours before planting. Oz., 75c.......5c pkt.

Strong Moon Flower Plants, 20c each; \$2.00 doz. By mail, 25c each.

Setosa (Brazilian Morning Glory). Flowers 3 inches or more across, of a beautiful rose color, borne in large clusters very freely from July to frost. As a quick-growing vine it has no equal, covering an enormous space in a few weeks time.................................5c pkt.

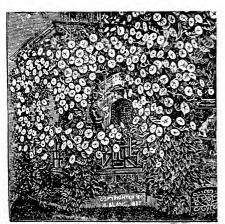
KENILWORTH IVY. A charming, small, neat, hardy perennial trailing plant, suitable for baskets, vases, pots and rock-work.

254 Linaria Cymbalaria. Lavender.....10c pkt.

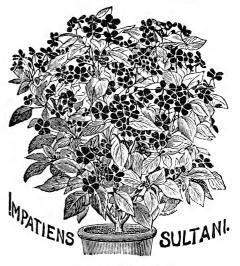
kochia (Summer Cypress, or Burning Bush). A highly ornamental annual of rapid growth which forms regular pyramids about 3 feet high, having a cypress-like appearance. The leaves are slender and of a light green until September, when they change to carmine and blood-red. The flowers are minute but countless. Sow indoors in April and plant out in May, or sow in open ground about May 1. Plants do best in a sunny exposure.

255 Kochia Tricophylla, oz., 50c.........5c pkt.

LADY SLIPPER. (See Balsam.)



Moon Flower, Cross Bred or Hybrid.



LARKSPURS.

(Annual Delphinium.)

These popular garden flowers have been greatly improved of late in color and size of blooms and habit of plants. Hardy annual.

256 Double Stock-Flowered.

Dwarf Hyacinth-Flowered. Resembles a Dutch 257 Hyacinth in style of bloom. Our mixture includes a very fine range of colors....5c pkt.

Giant Hyacinth-Flowered, Tall. A superb class. 258 The splendid flowers are very large, very double and of various beautiful colors, shadings and markings; long spikes of bloom like immense Hyacinths......10c pkt.

Double Dwarf Rocket. A most choice mixture of varieties, that grow about 1 foot in

LANTANA. One of the most desirable half-hardy perennial greenhouse or bedding plants.

261 Finest Mixed. All colors..........5c pkt.

LATHYRUS (Everlasting, or Hardy Sweet Pea), Showy, free-flowering, hardy perennial climbers for covering old stumps, fences, etc.

LIA. A charming dwarf-plant, admirably adapted for beds, edgings and rock-work. Their delicate, drooping foliage and pretty little blue and white flowers render them very attractive in pots or hanging baskets. The hardy perennial varieties are among the most attractive of our garden favorites, producing beautiful spikes of handsome flowers in autumn. LOBELIA.

Crystal Palace Compacta. Rich blue; finest for bedding. 10c pkt.

Gracilis. Pale blue; trailing, fine for vases 5c pkt. 265 266

Speciosa. Dark blue, trailing, fine for vases.....5c pkt.

267 Dwarf Mixed Varieties. For borders..................5c pkt.

268 Cardinalis Hybrids. Splendid hybrids mixed; highly recommended. Hardy perennial; 2 feet..........10c pkt.

LUPINUS.

-Annual Mixed. Free-flowering, easily grown annuals, with long, graceful spikes of rich and various colored peashaped flowers; valuable for mixed borders and heds; prefers a little shade from the noonday sun; 2 feet..5c pkt.

MARIGOLD.

The African and French Marigolds are old favorite free-flowering annuals of easy culture; both are extremely effective. The former have uniformly large, yellow or orange-colored flowers, and are well adapted for large beds or mixed borders; the latter are dwarfer in growth, with beautifully striped flowers, and better suited for beddling purposes, or for pot culture; they succeed best in a light soil, with full exposure to the sun. (See also Calendula.) AFRICAN VARIETIES. CAN VARIETIES.

Orange Prince. A high bred type bearing densely double flowers of a rich, deep golden-orange color; very showy..5c pkt.

Lemon Queen. Another fine variety, with soft, lemon-yellow flowers, and forming a fine contrast to the preceding..5c pkt.

Pride of the Garden. Immense flowers, densely double. Color golden-yellow. A feature of this variety is the compact, dwarf habit of the plant, which forms dense bushes 15 to 18 inches 275 tremely double. Colors in all shades of yellow.

free-flowering garden favorite; half hardy perennial; blooming the first season from seed.

Finest Mixed. Beautiful colors; 2 feet; oz., 15c

5c pkt.

Tigrinus (Monkey Flower). Fine mixed spotted varieties. 5c pkt. Moschatus (Musk Plant). Fine 285 for hanging-baskets,

Curious and interesting annuals, with pinkish-white flowers; leaves close droop and when touched or shak-en; 1½ feet. 5c pkt.

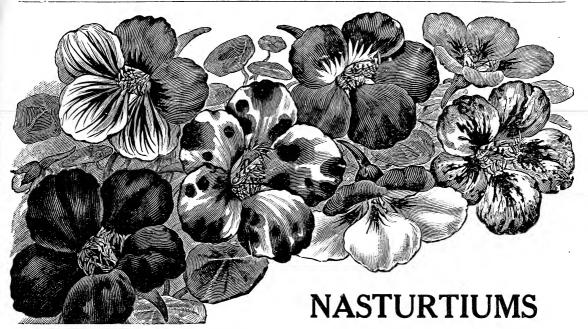


MIGNONETTE.

A well-known hardy annual. Grandiflora. Large-flowering, fragrant; e. One of the finest sorts; excellent Defiance. 288



Defiance Mignonette.



For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and from within a few weeks from the time they are sown until hard frost comes there is an endless profusion of their gorgeous blossoms. The varieties offered below were selected, after exhaustive trials, from a very large number of sorts as being the best and almost distinct:

TALL, or CLIMBING VARIETIES. Elegant and luxuriant climbers for verandas, trellises, etc. May be used to cover unsightly railings and to trail over rough ground with fine effect. The seedpods can be gathered while green and tender for pickling; 6 to 10 feet.

Chameleon. Different richly-colored flowers on the same plant.

Crimson. Rich and velvety.

Chocolate. An odd and unique color.

King Theodore. Deep crimson maroon; dark

296

298

Lemon Yellow. Clear yellow white with few 299

red veins.

Orange. Pure orange; no markings.

Pearl. Creamy white.

300

302 Prince Henry. Cream, spotted and tipped scarlet.

Purple. Rich shade of purplish crimson.

304 Rose. A lovely shade of ruby rose.

305 306

307

Scarlet. Glowing vermilion.
Schulzi. Rich, deep scarlet.
Straw Striped Scarlet. Effective.
Yesuvius. Salmony rose; an exquisite shade.
Spotted. Rich yellow, spotted garnet. 308

309

Any of the above Tall sorts, 15c per oz.; 40c per 1/4 lb.; 5c pkt.

310 McCULLOUGHS PREMIER MIXTURE OF TALL NASTURTIUMS.

311 Mixed Tall Nasturtiums. There is no flower of which you need seed in larger quantities for liberal plantings than Tall, or Climbing Nasturtiums. For the low price, this mixture is very choice.

10c oz.; 25c 1/4 lb.; 80c lb.; 5c pkt.

TOM THUMB, DWARF OR BEDDING VARIETIES.

Chrome-yellow, spotted and striped with deep crimson.

Beauty. Yellow-striped red.

Chameleon. This interesting variety produces flowers of different colors on the same plant.

316

217

Crystal Palace Gem. Sulphur spotted maroon. Empress of India. Splendid variety, brilliant crimson with dark foliage.
Golden King. Brilliant yellow.
King of Tom Thumbs. Intense deep scarlet flowers, dark foliage. 318

319 King Theodore. Dark maroon, bluish-green foliage. One of the best.
320 Lady Bird. Rich golden yellow, barred with bright ruby crimson.
321 Luteum. Fine yellow.
322 Pearl. Creamy white.
323 Prince Henry. Golden yellow, marbled and spotted with brilliant scarlet.
324 Rose. Light rose, splendid color.
325 Ruby King. Brilliant crimson rose.
326 Spotted King. Orange spotted crimson.
327 Vesuvius. Brilliant salmon pink.

Price. Any of the above Dwarf sorts, 15c per oz.; 40c per 1/4 lb.; 5c pkt.

328 McCULLOUGH'S PREMIER MIXTURE OF FINEST DWARF NASTURTIUMS.

This is our best mixture of the dwarf varieties. It is composed exclusively of the most elegant, large-flowered sorts, and the brilliantly colored flowers range through every shade and tint known in this favorite annual. This seed will produce a bed or border gorgeous beyond description.

Oz., 15c; ½ lb., 40c; l lb., \$1.25; 5c pkt.

Mixed Dwarf Nasturtiums. We handle such large quantities of Dwarf Nasturtiums that we are able to offer this especially choice mixture at a very low price. You should plant this mixture very liberally. Oz., 10c; ¼ lb., 25c; lb., 80c; 5c pkt.

Lobb's Climbing, Ivy-leaved and Variegated-leaved Nasturtiums are offered on next page.

NASTURTIUMS

(See also preceding page.)

LOBB'S CLIMBING NASTURTIUMS (Tropaeolum Lobbianum). Both foliage and flowers of this class are somewhat smaller than the Tall varieties, but the splendid profusion of bloom and the intensely brilliant colors of the flowers render them of the greatest value; 6 to 12 feet.

Asa Gray. The lightest color yet obtained; sulphur

331

332 333

5c pkt. 334 3355c pkt.

336

red, pale yellow, either as self colors or spotted and striped. The foliage is mostly dark and contrasts very effectively with the rich colors, and are free and continuous bloomers; 15c oz.......5c pkt.

337 Tropacolum Canariense. (Canary Bird Flower.) Bright yellow; 10 feet.....5c pkt.

NASTURTIUM IVY LEAVED. A new class with thick, green, lobed leaves, resembling those of the English Ivy. The flowers are of a delicate fringed formation and are borne in great abundance throughout the season

cate fringed formation and are borne in great abundance throughout the season.

Tail Ivy Leaved Mixed; 15c oz......5c pkt.
Dwarf Ivy Leaved Mixed; 15c oz.....5c pkt.
URTIUM VARIEGATED LEAVED. The foliage is strikingly variegated, rendering the plants very ornamental even when not in flower, and when in bloom the effect is doubly enhanced. They are superb for garden culture and also make lovely pot plants.

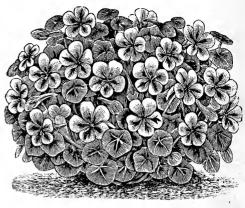
Tail Variegated Mixed. All colors; 15c oz.

5c pkt. 338 NASTURTIUM

Dwarf Variegated Mixed. All colors; 15c oz. 341

NASTURTIUM GOLDEN FOLIAGE. A striking and most desirable type for bedding and potting. The contrast between the clear golden yellow foliage and flowers are remarkable.

342 Dwarf Golden Foliage. Mixed colors; 15c oz.



Dwarf Nasturtiums.

NICOTIANA. Ornamental plants, very effective both in foliage and flower; the flowering sorts continue in bloom throughout the season and produce their fragrant, tubular-shaped flow-

OXALIS.

Finest Mixed......5c pkt.

PRIMULA.

(Chinese Primroses.)

This is indispensable for winter or spring decorations in the home or conservatory. The seed should be sown in light soil, but for final potting a richer soil is necessary, consisting of two parts loam to one each of well decayed manure and leafmold.



Chinese Fringed Primrose.

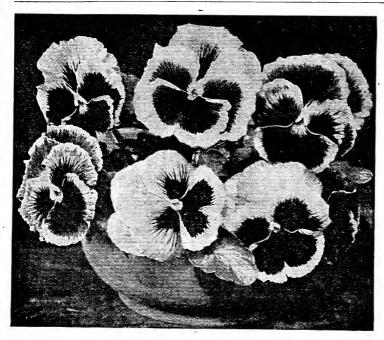
359

PRIMULA CHINENSIS FIMERIATA.
349 Alba Magnifica. The finest pure white with bright yellow eye, beautifully

352 .20c pkt.

ed. .20c pkt. Choicest Mixed. This mixture contains, nothing but the finest sorts of Chinese Primroses. . . .20c pkt. PRIMULA OBCONICA.

Primula Obconica Grandiflora Fimbriata. Very large flowers, with nicely fringed and toothed petals. The flowers are produced in constant succession, ranging in color from white to rose; a beautiful pot plant.



McCullough's Premier Pansies.

PANSY.

(The Favorite Flower.)

Pansies are the most popular of all flowering plants and are grown over the widest extent of country. They bloom most freely and produce largest flowers in cool, moist locations, or during early spring and late fall months. They flower profusely, however, even during the summer, from seed sown in open ground early in spring.

respectively. Seed sown in open ground early in spring.

Pansy seed has been always a leading specialty with us, and we offer not only the largest and finest collection, but most carefully selected strains of each value. fully selected strains of each va-

riety.
Seed germinates best while soil is still cool and moist. We would advise sowing in shallow drills in seed-bed early in spring when the trees are starting out in leaf, and again in September when the weather becomes cool. As above stated, plants from the spring-sown seed flower with great freedom throughout spring, summer and fall, while the stocky young plants grown in fall and winter produce the largest and dinest flowers early the following spring. spring.

spring.

The finest Pansies are, as a rule, shy seeders, which accounts for the difference in the price of the various mixtures offered.

PANSIES IN MIXTURE.

360 McCullough's Premier Pansies. In this magnificent mixture of mammoth-flowned and particular parties programmer parties.

361 McCullough's Special Mixture. A superior mixture, selected from choice, large flowering strains of English, French and German grow-½ oz., \$1.25......15c pkt.

Giant Trimardeau, Mixed. These are the largest flowered of all; a most showy class, of robust and very compact growth. The flowers are carried well above the leaves; splendid for bouquets, as the stems are long. Mixture of finest colors. ½ oz., 60c..10c pkt. 362

Masterpiece. The enormous large flowers are borne well above the foliage on strong stems. The petals of the flowers are waved 366 Masterpiece.

Bedding Pansies in Separate Colors. For liberal plantings in the garden beds, these fine sorts are the most desirable.

367 Azure Blue.

368 Black.

Dark Purple.
Dark Red.
Light Blue.
Pure White. 369 370 371 372 Purplish Violet. Pure Yellow. 373 374

376

Yellow, Black Center. Rosy Lilac. above Bedding Pansies, each 5c pkt.; 1/4 oz., 35c; 1 oz., \$1.25.

GIANT TRIMARDEAU PANSIES.

(Separate Colors.)

1. White shining Rose, beautiful-377 Bridesmaid. 378 Giant five spotted variety.

by blotched.

Canary Bird. Giant five spotted variety.

Bright golden yellow.

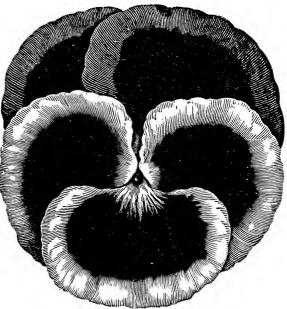
Emperor William. Indigo blue, blotched, black.

Called Onean. Pure golden-yellow. Very fine. 379 Golden Queen. Pure golden-yellow. Very fine. King of the Blacks. Lustrous jet black. Lord Beaconsfield. Lavender, heliotrope, pur-380 381

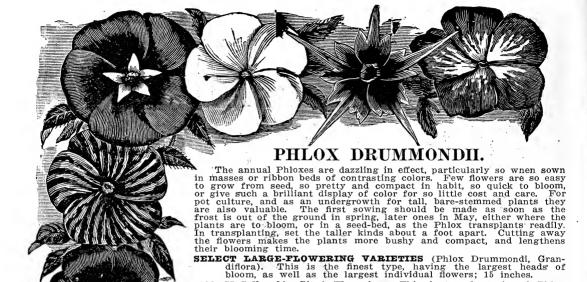
ple.

Peacock (Gloriosa). Garnet, cream and blue.

President Carnot. White, large violet 384 blotches

Snow-Plake. Spotless, snow-white. All above Giant Pansies, each, 10c pkt; 1/4 oz., 60c. 

Type of McCullough's Premier Pansy.



390 391 Kermesina Splendens. Vivid crimson, very bright and effective. McCullough's Giant. 392 10c pkt.

not so large as the grandiflora type, but just as free-flowering and effective. Oz., 50c.5c pkt. as free-nowering and effective. Oz., 50c. 5c pkt.

LARGE-FLOWERING DWARF VARIETIES. A type
combining the size of the individual flower
and head of the finest Grandifloras with the
Dwarf, compact growth of the Dwarf sorts,
a perfect combination; and while they do
not come in the large variety of colors found
in the taller-growing type, the colors offered
will be found very effective for beds, borders,
etc., etc.; 8 inches.

394 Brilliant Rose.

Phlox Drummondi, Mixed Colors.

395

PORTULACA. (Sun Plant.)

387

388

389

One of our finest hardy annual plants, of easy culture, thriving best in a rather rich, light loam or sandy soil, and luxuriating in an exposed, sunny situation; the flowers are of the richest colors, and produced throughout the summer in great profusion; fine for massing in beds, edgings of rock-work; 6 inches.

Single Mixed Colors. Per oz., 40c..........5c pkt. 402

PYRETHRUM.

Handsome herbaceous plants of easy culture, and becoming more popular as they become better known.
P. Aureum is the well-known Golden Feather so much

P. Aureum is the well-known Golden Feather so much used for edging, carpet bedding, etc., while the others are most attractive hardy plants.

403 Aurem (Golden Feather). Yellow foliage. 1/4 oz. oz., **20c.** 5c pkt.

Hybridum. Large flowering single mixed. Hardy perennial, bearing large Daisy or Cosmos-like flowers, ranging in color from light pink to deep red, with bright yellow centers; blooms in May and June and again in fall, and are one of the most graceful and long-lasting cut flowers; 2 feet. ¼ oz., 30c..10c pkt. 404

HINTS ON THE CULTURE OF FLOWERS FROM SEED.

Much annoyance and disappointment may be saved by giving close attention to the following: Avoid especially deep planting, over-watering, under-watering or sowing too thickly.

STAR PHLOX.

- 398 Phlox Cuspidata (Star of Quedlinburg). Finest mixed. Beautiful star-shaped flowers in showy colors......10c pkt.
- Phlox Fimbriata, Finest Mixed. A fine strain, with petals beautifully fringed; distinct and fine.....10c pkt.

HARDY PERENNIAL PHLOX (P. Decussata).

McCullough's Giant Flowering. This improved strain of Phlox has very large, perfectly round flowers, and will produce immense trusses of flowers which will surpass every other variety in extreme richness of color and duration of bloom. It grows very compact. 75c oz.....10c pkt.

Alba. Large, pure white......10c pkt.

Alba Oculata. Pure white, with claret eye10c pkt.

Hardy Herbaceous Perennial, and quite distinct from the varieties of Phlox Drummondi, which are annuals, offered above; all colors mixed; saved from our own unequalled collection. ¼ oz., 50c...........10c pkt.



Dwarf Phlox.

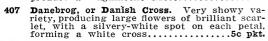
POPPIES.

Annual Poppies should be sown as early in the spring as possible where they are to remain, as they do not stand transplanting. Sow very thinly, preferably in cloudy weather or after a shower, barely cover the seed, press down firmly, and they will come up in a few days. If they come up too thickly, they must be thinned out to stand 3 to 4 inches or more apart if you wish best results. It is well to make several sowings at intervals to keep up a succession of bloom. If picked just before expanding the flowers will last several days. It is also advisable to pick the old flowers as soon as fallen, which will lengthen the blooming season quite a while.

SINGLE ANNUAL POPPIES.

SINGLE ANNUAL POPPIES.

406



Umbrosum. Richest vermilion, with a deep, shining black spot at the base of each petal. 408

Flag of Truce. Large, sating-white flowers. 409 5c pkt.

Tulip Poppy (Papaver Glaucum). Large, tulip-like flowers of dazzling scarlet; 15 inches. Per ¼ oz., 15c..................5c pkt. 410

Fire Dragon. Very showy flowers of brilliant deep scarlet, with black spots, margined white; 2 to 2½ feet. Per ¼ oz., 20c......5c pkt.

The Bride. A beautiful variety with very large, pure white, perfectly-formed flowers. 5c pkt.

413 Single Mixed. Annual sorts. Oz., 20c.5c pkt.



Shirley Poppy.

POUBLE ANNUAL POPPIES. The Double Annual Poppies make a gorgeous show, and are largely used for beds and borders.

White Swan. Immense double flowers, beautifully fringed and of purest white....5c pkt-

"Mikado" (The Striped Japanese Poppy). This beautiful Poppy is very distinct in character and color. The flowers are brilliant scarlet and white, with elegantly curved petals, like a Japanese Chrysanthemum...5c pkt.

Carnation Flowered. Splendid double fringed flowers, mixed colors............5c pkt.

Paeony Flowered. Large, showy, double globular flowers, resembling a double Paeony; mixed colors. Per oz., 20c.......5c pkt.

419 Double Mixed. Annual sorts. Oz., 20c..5c pkt.

HARDY PERENNIAL POPPIES. Oriental and Bracteatum Poppies should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July and August, appearing again as soon as the weather gets cool. When this fall growth starts is the time they should be transplanted to their permanent flowering quarters. It is well to mark the places they are planted with a stake to insure the roots against disturbance during their annual resting period.

Bracteatum. Bracteatum. Immense orange-scarlet flowers, very similar to the Oriental Poppy. ¼ oz., 20c...5c pkt.

Orientale (The Large Oriental Poppy). A charming summer-flowering hardy plant, producing numerous leafy stems about 2½ feet high, with large, deep crimson flowers, having a conspicuous black blotch on each petal; exceedingly showy....5c pkt.

Orientale Hybrids. Beautiful Hybrids of the Oriental Poppy, producing flowers of immense size, 6 inches and over in diameter, and of many novel colors, such as salmon, cherry, etc. 1/4 oz., 50c.

10c pkt.

ICELAND POPPIES.

(Papaver Nudicaule.)

These are of graceful, neat habit, with bright green fern-like foliage, formed in tufts, from which issue slender stalks about 12 inches high, bearing their brilliant flowers in endless profusion; most useful for cutting, for which purpose pick when in bud; blooms the first year from seed, and if the seedpods are picked off continue in flower the entire season.



McCullough's selected flower seeds

We test hundreds of varieties Give best satisfaction. every year in our trial grounds, and know that you can not buy better flower seeds, no matter where you buy or what you pay.

Tulip Poppy.

PETUNIA.

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position. There are two distinct kinds of Single Petunias—the Grandiflora sorts, with large flowers, and the small flowered section, which gives abundance of bloom.

gives abundance of bloom.

NOTE.—It is well known that seed saved from the most carefully hybridized flowers produces but a small percentage of double flowers, the balance being singles of tinusually fine quality. The weaker seedlings should be carefully saved, as these invariably produce the finest double flowers. The same is true of the single sorts, the large, strong seedlings usually being weedy, while the weaker seedlings produce the finest flowers of best colorings. It is best to sow Petunias indoors and transplant to the open in May. The Single Bedding kinds can be sown right out of doors in May.

DOUBLE LARGE-FLOWERING.

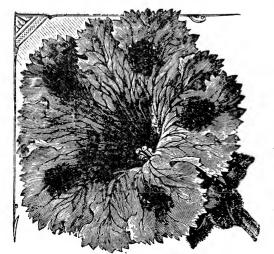
McCullough's Splendid Double Fringed. One of the finest strains in existence. The double flowers are very large, full, and beautifully formed, having the edges of the petals elegantly fringed.....35c pkt. Grandiflora Double Mixed. Choice strains of fine colors and large flowers.....25c pkt.

SINGLE LARGE-FLOWERING.

- McCullough's Mammoth Single. This mixture is made by ourselves, and includes, besides the California Giants, all the colors of the large-flowering and fringed sorts, and the unsurpassed Superbissima varieties, with their delicately-veined throats in various colors, and their truly mammoth flowers. 20c pkt.
- Giants of California. Flowers very large, in great variety of colors and markings, with broad, deep, yellow throats, veined...15c pkt. Ruffied Giants. New; very large-flowered; ruffled, fluted and fringed, striped and mottled, blotched and solid self-colors, with many color-combinations quite new in Petunias.
- 15c pkt. Superb

SINGLE BEDDING PETUNIAS.

- 433
- 435
- 436
- Howard's Star. A beautiful free-flowering strain, color crimson maroon with a clearly-defined five-pointed star of bluish-white. For bedding, baskets, vases, etc.....10c pkt.



Petunia, McCullough's Mammoth.



Double Petunia

- SINGLE PETUNIAS-Continued.
 - Striped and Blotched. Fine for massing.
- Finest Single Mixed. Superb strain bedding Petunias. Oz., \$1.50................10c pkt.
- Fine Single Mixed. Very fine quality 75c......5c pkt.
- **RHODANTHE.** The flowers should be gathered before they fully expand. If allowed to grow too long they open too much, and lose their beautiful bell form. Flowers everlasting. Half-hardy annuals.
- 440 Maculata. Mixed, all colors......5c pkt.

RICINUS.

(Castor Oil Bean.)

Known as "Castor Oil Plant" and "Palma Christa." Highly ornamental and stately growing plants of tropical origin, with luxuriant foliage of varied colors and brilliant colored fruit. When grown on lawns or in the garden as single specimens, they form a magnificent showy plant; height 8 to 15 feet. Start seed in pots, in March, and transplant as soon as the ground is warm. Half-hardy annuals.

- 442
- Zanzibariensis. An entirely new and distinct class of these handsome ornamental plants, which surpass in size and beauty all the varieties hitherto known. The plants attain great dimensions, presenting a splendid aspect with their gigantic leaves. As single specimens on the lawn or in large groups they are very effective; 8 to 10 feet.
- 444 Finest Mixed. All varieties. Oz., 30c....5c pkt.

RUDBECKIA (Cone Flower).

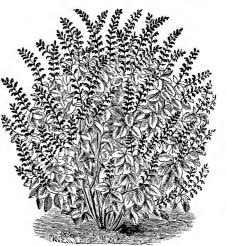
- Bicolor Superba. Fine free-flowering annual variety, growing about 2 feet high, forming a dense bush and producing in great abundance on long stems its bright flowers. The disc is brown, the florets golden-yellow, with large, velvety-brown spots at the base; very effective and useful for cutting..........10c pkt.

SALVIA.

(Flowering Sage).

The Scarlet Sage has long been a favorite bedding plant, also grown for conservatory decoration, bearing long spikes of flowers in great profusion from July till frost; half-hardy perennials, blooming the first year from seed, which should be sown as early as possible, either indoors or in a hotbed, and the young plants transferred to their flowering quarters when the weather has become settled and warm. May also be sown in the open ground in May.

SALPIGLOSSIS.



Salvia Splendens. (Scarlet Sage.)

The Salpiglossis is one of the greatest favorites among annuals, partly because of its easy culture, but principally for its beautiful, almost orchid-like flowers, which it produces from early summer until late fall. Seed should be sown early in spring in a hotbed or window and transplanted when weather is settled or directly out of doors after danger of frost.

Emperor. This variety forms only one leading stem, and bears on its summit a veritable bouquet of the most beautiful flowers, each one richly veined with gold......10c pkt. Finest Mixed. All colors......5c pkt.

SMILAX (Myrsiphyllum Asparagoides).

SHASTA DAISY. (See Chrysanthemum.)

In many respects the Smilax is the most useful, and it is certainly one of the most graceful climbers which adorns the greenhouse or conservatory; for bouquets and floral decorations it is indispensable. ¼ oz., 20c.5c pkt.

STOKESIA (Cornflower Aster).

SCABIOSA.

(Mourning Bride, Sweet Scabious, Pincushion Flower.) Seed can be sown any time in the spring after danger of frost is past. They grow about 2½ feet high, and come into bloom early in July, and continue without interruption until hard frost. The beautiful flowers in exquisite shades are borne on long stems, and when cut keep in perfect condition for the best part of a week. They make effective borders or beds, and no garden is complete without Scabiosas, especially where flowers are wanted for cutting.

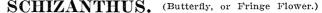
455	Azure F	airy.	Laver	ider-k	olue.		5с	pkt.
456	Crimson.						. 5c	pkt.
457	King of	the	Blacks.	Bla	ick-p	urple	5c	pkt.
	Lilac							
459	Rose		 .				5c	pkt.
	White							
	Mixed.							

flowering......5c pkt.

HARDY PERENNIAL SORTS.

462 Caucasica (Blue Bonnet). One of the handsomest of hardy perennials, especially valuable for cutting, the blooms lasting a long time in water; lilac-blue; 3 feet......................10c pkt.

Japonica. A hardy perennial variety from Japan, forming bushy plants 2½ feet in height by the same through, and bearing on long, wiry stems beautiful, artistic, lavender-blue flowers, extremely floriferious, producing a continuous crop all summer. A fine cut flower.



This is one of the airiest and daintiest flowers imaginable, especially adapted to bordering beds of taller flowers and those of a heavier growth. The seeds germinate quickly and come into bloom in a few weeks from sowing. The florescence is such as to completely obscure the foliage, making the plants a veritable pyramid of the most delicate and charming bloom. If a continuous show of bloom is desired, it will be well to make sowings of seed in a sheltered bed and transplant into the borders as required. The Schizanthus make admirable pot plants for the house, and are charming for window boxes in winter. For this purpose sow in the autumn.

Dwarf Large-Flowered. A new variety, forming compact pyramidal plants a foot high, literally covered with large, beautiful orchid-like flowers in a bewildering range of color.............10c pkt.



WILD FLOWER GARDEN MIXTURE. These mixed flower seeds embrace varieties of such easy-growing and pretty flowers as are suitable for forming a wild flower garden. They are very useful for woodland walks, roadsides, railroad embankments, and for sowing alongside of fences and on untidy bare spots of ground which are so frequently unsightly, and which, if properly cared for and kept free from weeds, can be made to produce a continual display of bloom during the summer. See page 55.



Scabiosa.

SWEET PEAS.

Flowering Peas are among the most useful and beautiful of all our hardy annuals. Every year our list is carefully revised, with a view to keeping it strictly up to date.

How to Grow Sweet Peas.

The principal essential for the best success is a cool, deep, moist soil, and a sumny situation. The ground should be prepared deep and rich. Fall preparation, where possible, is preferable, but if done in the spring, use no green manure. Bone meal is good if old rotted manure can not be obtained. Sow early, even before the frost is out of the ground, as Sweet Peas need the cold, moist spring ground to make the root growth. In the latitude of Cincinnati, February is not too early. In the South, sow in the fall. Sow the seed in deep furrows, the bottom of which must be at least 6 inches below the level of the soil; this is to guard against a summer drought. Cover the seeds only one inch, after which the furrow is still five inches deep. When the plants are 2 or 3 inches high thin out to 2 inches apart and fill in another inch or so of soil around the plants, always leaving a portion of the plant above the surface; do this at intervals until the furrow is nearly full; it should always remain a little hollow, to hold the rains, and to allow water to be applied by the bucketful when necessary.

the rains, and to allow water to be applied by the bucketrul when necessary.

During dry weather they should be watered thoroughly and frequently and given an application of liquid manure once a week. A mulch of hay or rakings from the lawn will be found beneficial during hot weather. The flowers should be cut as often as possible, and all withered blooms should be removed, to prevent the plants from running to seed, which would stop them from continuing in bloom.

LARGE-FLOWERING NAMED VARIETIES.

The Following Named Varieties, 5c pkt; 15c cz.; 50c 1/4 lb.

467 468

e Following Named Varieties, 5c pkt; 15c cz.; 50c ½ 1b.

America. Crimson scarlet, striped on white. Large size.

Aurora. Standard and wings white, shaded with salmon.

Black Knight. Pure maroon, self-colored, large size.

Blanche Ferry. Rose pink standard, white wings.

Coccinea. Cerise red, self-color, very bright and effective.

Dorothy Eckford. The finest pure white. The plant is short-jointed, and grows an enormous mass of bloom.

Earliest of all. Rose pink standard, with white wings.

Earliest White (Burpee). The earliest white.

Flora Norton. Pure bright self-blue; quite distinct.

Gladys Unwin. Bright light pink, a little deeper at the edges.

Very largest size open form.

Helen Pierce. Pure white, veined, mottled and marbled with bright blue.

King Edward VII. A lovely, intense, bright crimson. A giant fice 470 471

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bright blue.

King Edward VII. A lovely, intense, bright crimson. A giant flowered variety with strong stems and growth; does not burn in the sun.

Lady Grisel Hamilton. Beautiful pale lavender; in form it is one of
the most advanced giant flowering type.

Lord Nelson. Standard dark navy blue; wings shaded purple.

Lottie Eckford. White ground, shaded and edged with light blue and
mauve; large size.

Lovely. Standard and wings deep rose at base, shading to pale pink and 478

480

481 Lottie Eckford. White ground, shaded and edged with light blue and mauve; large size.

Lovely. Standard and wings deep rose at base, shading to pale pink and blush at edges; large size.

Mont Elanc. Splendid pure white; early.

Miss Wilmott. Standard orange pink; wings rose tinted orange.

Mrs. Alfred Watkins. A superb pale pink, of large size with a bold wavy standard. Large, open and wavy form.

Mrs. E. Kenyon. A beautiful primrose color; a bold giant flower; a most desirable variety.

Mrs. Geo. Wiccinson. Jr. A clear delicate 494 Queen Alexandra. 482

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486

Mrs. Geo. Higginson, Jr. A clear, delicate 487 light blue.

Mrs. Walter Wright. Rose purple, self-colored. It changes to a bluish purple as it 488 fully matures.

Navy Blue. Standard indigo; wings indigo 489 shaded to navy blue.

Nora Unwin. Pure white, very large, open, wavy form, free-flowering with long stem. One of the finest. 490

491 Othello. Standard and wings dark maroon.

Frima Donna. Bright blush pink; large size and fine form.

Prince of Wales. Bright rose; large flower; the prettiest of the bright red varieties.

Queen Alexandra. Intense scarlet; flower of finest form; very free flowering. 495

Royal Rose. Standard deep rose shading with pink; wings light pink; very large flower.

St. George. The bold expanded standard is a rich orange color, while the large wings are orange carmine.

Shasta. Pure white; very large size; open form. The petals both standard and wings, are wavy on the edges.

Stella Morse. Primrose yellow, tinged with blush pink. 498

MIXTURES OF SWEET PEAS. All of the mixtures offered below have been made up by ourselves out of the finest named varieties, insuring a satisfactory result in color, and must not be confounded with cheap grades, which are harvested in mixture and always contain a large proportion of dull and undesirable colors.

McCullough's Premier Mixed. This mixture contains all the best-named large-flowering varieties and novelties, and is undoubtedly the finest and most complete mixture ever offered, being put up by ourselves from named varieties only, in the proper proportion of colors. 10c oz.; 35c ½ lb.; \$1.25 lb. 5c pkt.

Fine Mixed. A very good mixture of over 20 varieties. 4 lb., 20c; lb., 75c.

Spencer Orchid-Flowered Mixed. This mixture contains the large orchid-flowered varieties, and no one need hesitate about purchasing this mixture, as the best of care is taken to have all the colors of the beautiful crumpled or waved varieties to blend. Oz., 20c; ¼ lb., 60c...........10c pkt.

MIXTURES OF SEPARATE SHADES. For such as prefer to grow the various colors separate we have prepared the following mixtures out of the finest named sorts.

Pink Shades. Light to deep pink.

Red Shades. Bright rose to dark scarlet.

Lavender and Blue Shades. Lavender to heliotrope.

Purple and Maroon Shades. All the dark colors.

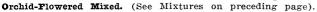
White Varieties, Mixed.

Any of the above mixed shades, 5c pkt.; 15c oz.; 50c 1/4 1b.

ORCHID-FLOWERED SWEET PEAS.

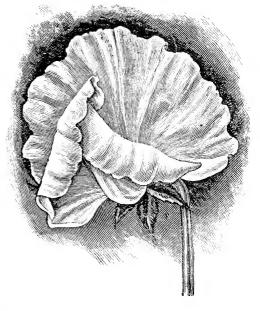
The introduction of this type has created new interest and added to the popularity of Sweet Peas. They are quite distinct from the standard sorts, having large, round, open flowers of extraordinary size, usually measuring 2 inches across, with wavy standards and widespreading wings, a very large percentage bearing 4 of these immense blossoms to the stem, which is long and strong, making them of exceptional value for cutting.

- Beatrice Spencer. Standard white, tinted with soft pink and buff, while each wing has a blotch of brighter pink near the base. 20c ½ oz.; 35c oz. 10c pkt.
- Countess Spencer. Bright clear pink, showing a little deeper at the edges. 30c oz.....10c pkt. 509
- Ethel Roosevelt. Flowers of the largest and most perfect Spencer type. The ground color is a soft primrose or straw color, overlaid with flakes and splashes of blush-crimson. 30c 1/2 oz.; 50c oz. 15c pkt.
- Florence Morse Spencer. Delicate blush, with pink margin; very large, open, wavy form, with long stems. 20c ½ oz.; 35c oz..........10c pkt.





- 520
- 521



STOCKS.

(Gilliflower.)

Stock seed may be sown in the open ground, or in the hotbed or cold frame, but if transplanted, let this be done when the plants are small, just out of the seed-leaf, or the plants become slender and never make good plants nor flower well. A little shade from the hottest sun, and water in the evening, will add much to the size, beauty and durability of the flowers. Make the soil deep and rich.

- 522 McCullough's Cincinnati Market. A fine perpetual blooming stock, producing one long, sturdy spike, closely set with enormous double flowers. A grand variety.....10c pkt.
- Princess Alice (Cut and Come Again). If sown early it commences blooming in June and continues until frost. It throws out numerous side branches bearing clusters of very double, pure white, fragrant blossoms, and is excellent for cutting.....10c pkt.



525	Light Blue10c	pkt.
526	Rose10c	pkt.
527	Scarlet10c	pkt.
528	White10c	pkt.
500	Binost Wined Berfaction All colons	as Ted

- Finest Mixed Perfection. All colors..................10c pkt. 530 Dwarf German Mixed. All Colors...... 5c pkt.
- SWEET WILLIAM (Dianthus Barbatus). The double and single varieties, with their rich and varied colors, produce a charming effect for beds and borders. Seed planted early will bloom in the fall. It is better to sow seed every year to have young plants, as they flower more freely. Hardy biennial; height 1 plants, as to 1½ feet.
- Single Mixed. A very choice assortment of all the best single-
- Double Mixed. This mixture you will find of very superior quality; containing all colors and shades......5c pkt.

SUNFLOWER. (See Helianthus.) SWEET SULTANS. (See Centaurea.)

SNOW-ON-THE-MOUNTAIN. (See Euphorbia.)



Sweet William.

THUNBERGIA.

(Black-Eyed Susan.)

534 Beautiful.

TORENIA.

VINCA.

(Madagascar Periwinkle.)

Ornamental free-blooming plants and one of the most satisfactory flowering bedding plants we have. It is best to start the seed early indoors or in a hotbed, but they begin blooming in August from seed sown out of doors in May, or as soon as the ground is warm, continuing until frost; or they may be potted and kept in bloom through the winter; a fine cut flower, every bud opening when placed in water; 2 feet. (See cut.)



537 Alba. White, crimson eye.....10c pkt.

538 Alba Pura. Pure white. 10c pkt.

539 Mixed. ¼ oz., 25c. 5c pkt.

(Viola Odorata.) VIOLET. great favorite, suitable for groups or borders and much in demand on account of its profusion of bloom and delightful fragrance. Violet seeds germinate very slowly. Hardy parennial perennial.

Finest Mixed. All varieties mixed ...10c pkt. 540

promise good seeds courteous treatment and quick Send your order service. NOW.



Vinca Rosea.

Mammoth Verbena.



Thunbergia.

VERBENAS.

Nothing is easier to grow, and the display they give during the summer is equalled only by the Phlox. To have the best results seeds should be started early (in the house) and the young plants bedded out by the first of June. Set them a foot or more apart, and in a month, at least, they will be so grown and matted together that one can hardly tell one plant from another. A circular raised mound is a good nlace on which to plant Verbenas. The bed should have the full sun, and a good supply of water Verbenas are

should have the full sun, and a good supply of water. Verbenas are easier grown from seeds than from cuttings, and they will bloom constantly from June until frost. The lavish and showy display of flowers in a Verbena bed is one of the most attractive.

McCullough's Mammoth Mixed Verbenas. Our strain of these elegant mammoth-flowering Verbenas will make beds and borders in the garden of the greatest brilliancy. These are our best Verbenas, and for enormous flowers of rich and superb colors are unsurpassed. They bloom most profusely. Our mixture contains every desirable color and shade. % oz., 25c; ¼ oz., 40c.

Fine Mixed. A very satisfactory assortment,

Fine

Mammoth Defiance. Brilliant scarlet, fine for 543

544 545

Mammoth Blue. Bright blue, in various shades.
10c pkt. 546 Mammoth Pink. Bright shades of pink nk; fine. 10c pkt.

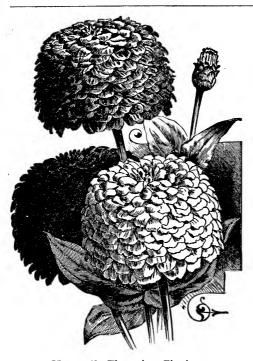
Lemon Verbena. (Aloysia citriodora.) Every garden should have a few plants of this fragrant favorite. Its pale green delightfully scented foliage goes well with any flower......10c pkt.

WALLFLOWER. Well known, deliciously fragrant, half-hardy perennials; blooming early in the spring, with large, conspicuous spikes of beautiful flowers; they should be protected in a cold frame in the winter, and planted out in May; are much prized for bouquets.

Double, Finest Mixed10c pkt. 549 Single, Finest Mixed 5c pkt.

.NTHEMUM. (Everlasting or Immortelle.) Showy double free-flowering border annuals. If the flowers are cut in the bud state they may be dried and used for winter bouquets. XERANTHEMUM.

550 Finest, Mixed Double. All colors.......5c pkt.



Mammoth Flowering Zinnia.

"WILD GARDEN" FLOWER SEED.

ZINNIAS.

(Youth and Old Age).

The Zinnia is one of the most brilliant and showy of annuals, and has long been a general favorite. The seed can be sown early in the hotbed or light window, and transplanted, or sown later in the open ground. They come into flower early in the summer and keep on blooming until hard frost.

Mammoth-Flowering Mixed. The plant forms a handsome bush, 2 feet high, and the mammoth, perfectly-formed double flowers, measuring 5 to 6 inches across of most intense and brilliant colors, Mammoth-Flowering Mixed. comprising new and rich hues......10c pkt.

Curled and Crested. A beautiful strain, the petals being twisted, curled and crested into the most fantastic and graceful forms. The colors comprise all the beautiful shades characteristic of the Zinnia.

10c pkt.

Zebra. A very pretty strain of striped flowers, as the colors vary on each plant, they present a curious as well as beautiful appearance......10c pkt.

LARGE FLOWERING DWARF. This we consider the best type for general use, forming bushy, compact plants not over 2 feet high, and bearing perfect double flowers as large as the taller-growing sorts.

 Flesh-pink.
 Delicate shade.
 ¼ oz., 20c....5c pkt.

 Dark Scarlet.
 Very rich.
 ¼ oz., 20c.....5c pkt.

 Canary.
 Clear yellow.
 ¼ oz., 20c......5c pkt.
 555 556 557 Jacqueminot. Rich crimson. 1/4 oz., 30c....5c pkt. 558 559 Orange. Striking. ¼ oz., 20c......5c pkt. 560 Scarlet. Bright and fiery. ¼ oz., 20c.....5c pkt.

White. 1/4 oz., 20c......5c pkt. 561 Salmon Rose. Beautiful shade. 1/4 oz., 20c..5c pkt. 562

Finest Mixed. All colors. Oz., 50c......5c pkt.

Each package contains about 100 varieties of hardy flower seeds mixed together, and wherever planted will insure something new almost every day. Is suitable for sowing in shrubbery, under trees and in beds on which no care will be bestowed, or even for sowing in exposed situations, where wildness is preferred to order and precision. To those who can not bestow the necessary care required in a neatly laid out flower garden, the "Wild Garden" presents a substitute which for its unusual and varied effect, for cheapness and small amount of labor necessary for its construction, has no rival.

600 Dwarf Sorts. Growing from 12 to 18 inches high. 601 Tall Sorts. Growing from 18 to 36 inches high. 25c per oz......5c pkt. Climbing and Trailing Sorts. Fine for hiding fences, brush and rubbish heaps. 25c oz......5c pkt. Dwarf Zinnia.

563

"Wild Garden" Flowers.

SUMMER FLOWERING BULBS AND ROOTS.

Our Prices Include Postage on Single Bulbs and by the Dozen, Except where otherwise noted.

Bulbs Quoted by the Hundred are not sent Prepaid.



AMARYLLIS.

Plant in equal parts sandy loam and leaf mould. If convenient, start in hotbed, beginning with fifty degrees of heat, increasing to sixty or seventy. When the leaves appear, water carefully and not in too great quantity. The Formosissima and Rosea planted in May make rich and showy border plants.

Belladonna Major. White, turning to rose as the flower ages. 25c each; \$2.50 per doz.

Formosissima. Rich, velvety crimson, fine...15c each; \$1.25 per doz. Johnsonii. Large flower, crimson-scarlet, striped with white.

30c each; \$3.25 per doz.

TUBEROUS-ROOTED BEGONIAS.

quantities as seem to be required, than to make the soil very rich from the start.

When the tubers of these Begonias are procured, spread them out on pans of moss, which should be kept moist and warm. Here they should be left until sprouts appear. It is not necessary to sprout your tubers in this manner if you can tell which is top or bottom of them, but frequently they look so much alike on both sides that you can not be sure which is which until sprouts appear, and it will not do to plant them wrong side up. Give each tuber a five-inch pot, if grown singly, or use three tubers to a seven-inch pot. Settle the tuber down into the soil to the depth of an inch. Water very cautiously until active growth begins, then increase the amount. But at no time during its existence will the plant require more than enough to make—and keep—the soil moist all through. Good drainage should be provided to guard against the dangers of overwatering.

TWO BRILLIANT BEGONIAS.

Two gorgeous tuberous-rooted varieties of strong but dwarf Two gorgeous tuberous-rooted varieties of strong but dwarf habit, 8 to 10 inches in height, and throwing up numberless stems, of full, double flowers from early in July until cut down by severe frost. A continuous display of color, which, for richness and intensity, is unapproached by any other flower.

Duke Zeppelin. Intense pure vermillion-scarlet.**

Lafayette. Brilliant crimson-scarlet.**



Single Tuberous-Rooted Begonias.

.....20c each; \$2.00 per doz.



Exceedingly useful plants for the garden, good for shady places. Lustrous bronze green foliage with small pink flowers. Hardy Begonia plants can only be sent by express. Small plants, 10c each; \$1.00 per doz. Large plants, 15c each; \$1.50 per doz.

CALADIUM ESCULENTUM.

One of the most effective plants in cultivation for the flower border, or for planting out upon the lawn. It will grow in any garden soil, and is of the easiest culture. It should be planted in a rich compost, where it will obtain plenty of water. Foliage light green.

Size Each Doz By Mail Size Each Doz. By Mail 1. Small bulbs ... 10c \$1.00 15c ea. 4. Selected Extra 2. Large bulbs ... 15c 1.50 20c ea. large bulbs ... 35c \$3.50 45c ea. 3. Extra large bulbs 25c 2.50 30c ea. 5. Monster bulbs ... 50c 5.00 60c ea.

CALADIUMS-FANCY LEAVED.

Fancy-leaved Caladiums have, in recent years, grown very rapidly in popular favor, for the decoration of the conservatory greenhouse and window boxes. We have a selection of the most showy varieties 20c each; \$2.25 doz.



CANNAS.

McCullough'S Collection of Standard Large-Flowering Varieties.

The sorts offered below are all strictly high-grade.

No other bedding plant will give the same uniform good results in our varied and trying climate. They do well in all sections of the country, and stand pre-eminently at the head of the list, succeeding in any sunny position in any kind of soil, but responding quickly to liberal treatment. For best results the beds should be spaded two feet deep and a liberal amount of manure of any kind thoroughly incorporated, and at all times supplying water freely. For best effect plant in large masses of one color, setting out the plants 2 feet apart.

Strong plants ready about May 1st.....15c each; \$1.50 per doz.; \$10.00 per 100.

Canna Plants can only be sent by express, at purchaser's expense.

Allemania. Orchid-flowered, pleasing dark salmon with golden markings. Green foliage. 4 feet.

Alphonse Bouvier. Finest, tall, brilliant crimson; green foliage; 6 feet.

Annie Laurie. Clear silvery pink flowers, with cream throat; green leaves;

3 feet.

Austria. Pure canary-yellow; fine large open flowers, with few reddish dots in the center of the two inside petal; 5 to 6 feet.

Augusta. Bright crimson edged with broad band of yellow; green foliage; 2½ feet.

Charles Henderson. Vermilion red, penciled with yellow in the center; compact, dwarf, with very large flowers; green foliage; 3½ feet.

Duke of Marlborough. One of the finest of the very deep crimsons; fine individual blooms in large trusses, and exceptionally free-flowering and attractive; green foliage; 4 feet.

Egandale. A favorite bronze-leaved sort, with soft currant-red flowers; 4 feet.

Florence Vaughan. Bright, rich golden-yellow, spotted with red; of large size and perfect form; green foliage; 4 feet.

Italia. Orchid-flowered. Bright orange-scarlet, with with broad golden-yellow border; the flowers are produced on massive stems, set well above the foliage, which is large and heavy, green foliage; 4 feet.

King Humbert. In this grand Canna we have a combination of the highest type of flowers with the finest bronze foliage. Its flowers measure 6 inches in diameter, produced in gigantic trusses, a brilliant orange-scarlet with bright red markings; foliage broad and massive, of a rich coppery-bronze; 5 feet.

Jean Tissot. One of the brightest; color an intense, brilliant vermilion, with bright orange shadings, a color that can be seen as far as the eye will carry; massive green foliage; 5 feet.

Louisiana. Very large, beautiful, vivid, scarlet,
Orchid-like flowers, often measuring five to
six inches across. Foliage a glossy green,
edged with a narrow purple band; 6 feet.

Mont Blanc. Large, beautiful white flowers on strong branching stalks, well above the foliage. It blooms early and continuously. Its great masses of snowy-white flowers contrast finely when planted with crimson and scarlet kinds. 3 feet.

Niagara. Great handsome trusses; color, deep crimson, with a border of golden-yellow; green foliage; height, 3 feet.



foliage bright glossy green; one of the best. 5 feet.

Pennsylvania. Intense vermilion-scarlet, overlaid

with an orange sheen. Flowers measure fully 6½ inches, are produced freely; foliage rich green; 5 feet.

Queen Charlotte. Rich scarlet with a wide, bright gold band around each petal; large flowers; green foliage; 3 feet.

Richard Wallace. A good free-flowering yellow Canna of vigorous growth, we believe this variety comes nearer to the ideal than any variety yet offered. In color it is a pleasing canary-yellow with exceptionally large flowers, which are carried well above the bright green foliage; 4½ feet.

Souvenir d'Antoine Crozy. Intense crimson-scarlet, with a broad golden-yellow border, an exceptionally free-flowering variety, and the brightest of the gilt-edged sorts; green foliage; 3½ feet.

Venus. One of the softest and most delicately colored varieties that has yet been introduced. The flowers are of fair size, of a soft rosy pink, with a pretty mottled border of creamy yellow. The plant always presents a clean, fresh appearance; green foliage; 3½ feet.

Price of above dormant roots,

10c each; \$1.00 per doz.

Strong plants ready about May 1st.

15c each; \$1.50 per doz.; \$10.00 per 100.

By express only, purchaser to pay charges.

Robusta Perfecta. A distinct and handsome sort.

makes a good screen; bearing immense leaves
eleven to eighteen inches wide and three feet
long, of a bright bronze-red color; the flowers
are insignificant; six to seven feet high; with
good cultivation grows ten feet.

10c each; 75c per doz.

Tall Cannas, Mixed. Our selection; dormant roots.

10c each; 75c per doz.

Dwarf Cannas, Mixed. Our selection; dormant roots.

10c each; 75c per doz.



DAHLIAS.

The Dahlia is one of the most important summer and autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until stopped by frost. Especially fine for cut flowers.

A FEW CULTURAL NOTES.

One of the most important points in the cultivation of the Dahlia is to select a well-drained position where they will receive the full benefit of the sun during the greater

will receive the full benefit of the sun during the greater part of the day.

As to soil, they are not at all particular, except that in the case of a stiff clay some loose material should be added, such as coarse sand, old mortar, or anything which will make the soil loose and friable. The soil must be deeply dug, if possible to a depth of two spades, and a liberal amount of suitable plant food incorporated. For this nothing is more satisfactory than well-decayed stable manure; but where this can not be conveniently procured pure bonemeal, sheep manure, or any chemical fertilizer rich in ammonia and phosphoric acid will answer as a substitute. substitute.

substitute. The planting of dormant roots in the latitude of Cincinnati may be done at any time between April 25th and June 15th, the earlier planting being preferable. Plant the bulbs three inches below the surface of the ground, laying the bulb on its side. Do not crowd your plants, but plant at a distance of not less than 2½ or 3 feet, and, as soon as the shoots appear, remove all but two or three of the strongest, and these, when about a foot high, should be secured to stout stakes.

Keep free from grass and weeds and water regularly in dry weather.

be secured to s Keep free fro in dry weather.

BEST STANDARD DECORATIVE AND SHOW DAHLIAS.

Named Varieties; 15c each; \$1.50 per dozen. ivoni. Soft pink, with quilled petals and full to the A. D. Livoni. Soft pink, center; long stems.

Susan.

White Swan.

long stems.

A very pleasing variety, its color, a delicate shell pink, as well as its remarkable free-flowering qualities, is not approached by any other Dahlia of this type.

Swan. Pure white, large and fine; the hardiest and easiest grown; long stems.

Agnew. Richest shade of intense dazzling red and very large in size, sometimes 7 inches across; magnificent flower in color and form; always full to the center; long petals, outer row beautifully twisted.

Black, changing to black-maroon as the flower fully expands; of fine form and full to the center.

Z11111.

to the center.

CACTUS DAHLIAS.

Countess of Lonsdale. Profuse bloomer and one of the best. Flowers very large and of a beautiful shade of salmon-pink, blending into amber. Floradora. Beautiful scarlet crimson, full to the center, fine pointed petals; good size; branching growth and profuse bloomer.

Gabriel. An exquisitely shaped flower, long incurved twisted petals; color combination of scarlet and cinnamon shades, sometimes tipned white

ped white.

Kriemhilde. An exquisite delicate shell-pink, shading to white in the center. Undoubtedly the finest and most perfect pink Cactus Dahlia to date, and as a cut flower likely to supercede

all other pink sorts.

Mrs. H. J. Jones. Very large, perfect, rich, bright scarlet, with cream-colored edge; occasionally comes self-colored.

Standard

ard Bearer. Intense cardinal-red, with long twisted petals; early and profuse bloomer. ome. (Cactus.) Pure white, flowers large, with twisted, incurved petals, giving great depth to flower. A strong, vigorous grower of branching healit branching habit.

SINGLE DAHLIAS.

Suitable for cut flowers on account of beauty, grace and long stems.

grace and long stems.

Crimson Century. Rich, deep, velvet crimson, shaded maroon, with rose halo around a yellow disc.

Maroon Century. Rich maroon, with yellow disc.

Pink Century. Delicate soft pink.

Scarlet Century. Brilliant scarlet, golden disc.

White Century. Pure white with large, heavy, overlapping petals of good texture.

Twentieth Century. Early in the season an intense rosy-crimson, shading gradually to almost white on the edges and a light halo around the disc. As the season advances the flowers become lighter, changing to almost pure white, suffused with soft pink.

Price of the preceding varieties, 15c each; \$1.50 doz.

MIXED DAHLIAS.

Our mixtures are made from selected varieties and contain many more kinds than we list here. Double Mixed, Cactus Mixed, Single Mixed. Our selection..........10c each; \$1.00 doz.

Pale primrose, tipped and shaded old rose

Arabella. Pale primrose, tipped and shaded old rose and lavender.
Catherine Duer. Of largest size, full to center; free bloomer; long stems; beautiful vivid scarlet; robust grower.
Clifford W. Bruton. Canary yellow; immense size and perfect form. A tall, vigorous grower and extremely free bloomer.
Frank Smith. Rich purplish maroon, shading almost to black, each petal tipped with white, with carmine red shadings; vigorous growth, early and profuse bloomer.
Germania. Brilliant strawberry-red, a very fluffy, artistic flower, standing well above the foliage.

Geisla. Orange red, with yellow center paling off towards the end of the petals.

Grand Duke Alexis. Pure white, distinctly tinged delicate pink. A magnificent flower of largerize

Henry Patrick. Pure white; large size, long stems; fine for cutting.

Jack Rose, Brilliant crimson-red, rich and glowing: stiff stems, holding its large flowers erect.

Lyndhurst. Brilliant cardinal-red. A fine cut flower.

Nymphaea. The flowers are of medium to large size, always full to the center, resembling the ideal pink water-lily. The color is a clear, distinct, light shrimp-pink, tinted lighter toward the center.

Ohio. Flowers large, of fine form and full to the center. Color delicate shell pink, shading to deeper pink in center, reverse side of petals pink.

pink.
Perle d'Or. pink.
d'Or. The grandest white decorative Dahlia to date. It is very large, and of beautiful chrysanthemum shape. It is a strong, vigorous branching grower of medium height, about 3½ to 4 feet, and an extremely early and profuse bloomer on long stems.

Victoria. Handsome deep yellow, finely quilled, perfect form.
Hussar. Best scarlet-crimson; a very strong, vigorous grower; fine, large, well-formed flowers on long stems. One of the best bright reds for cutting.

Red Hussar.

ers on long stems. One of the best bright ers on long stems. One of the best bright ereds for cutting.

Bright golden yellow, tipped red.

King. Extremely early, profuse and constant bloomer. Flowers snow-white, perfect Stanley. Bright gold Storm King. Extrem stant bloomer.

Sylvia. Valuable for cutting. Flowers from 4 to 5 inches in diameter, of fine form and full to the center; grow on long, stout and graceful stems; color white, shading to soft pink on

the outer petals.

Oueen. Pure white, strong vigorous grower.
The graceful formation of the flower and adaptability for both garden decoration and cut-flower makes it extremely valuable.

clad. (Pompon.) The finest white with long

Snowclad.

stems.

Sunshine. (Pompon.) Brilliant scarlet; fine form,
full centers, long stems, largely used for cutting,

GLADIOLUS.

The most attractive of all summer-flowering bulbs are the Gladioli. Wonderful improvements are being made each year in the size, color and beauty of these flowers, and our list comprises only the best, both in mixtures and in named

For best results they should have a sunny position. A light, sandy loam suits them best, but they do equally as well in heavy soil provided there is perfect drainage. Well-rotted stable manure is the very best fertilizer, and where convenient it should be spread over the land in the fall, and dug in the following spring. Sheep manure is an excellent substitute, and can be applied in the spring. The best time to plant is about the first of May, putting in the smallest bulbs first, and reserving the larger bulbs for later planting. A succession of bloom may be had from July to October by making plantings two weeks apart up to the end of June. To make a good show they should be planted from three to four inches apart each way. The depth to plant is regulated by the size of the bulb, large bulbs being covered about six inches deep, smaller ones from three or four inches.

being covered about six inches deep, smaller ones from three or four inches.

After they have flowered and the foliage begins to turn yellow, which is usually along about the beginning of October, lift the bulbs, cutting off the stems, placing them in trays or sheves in an airy cellar or some such place, where the temperature will not fall below 45 degrees, or over 60 degrees. In such a position they will keep perfectly until time for resetting the following season.

They are very effective when planted among Roses, Pageonias Shrubbery etc.

They are very energies when planted among loses, Paeonies, Shrubbery, etc.

In cutting Gladioli for the house, it is best to cut the spikes as soon as the first one or two lower flowers are open. The remainder will open in the house. Remove the faded flowers, cut a little off the stem, and change the water every day; treated in this way, a spike will last a work or ten day. week or ten days.

Add 10c per dozen extra for postage.

ca. Conceded to be one of the finest varieties for cutting or bedding ever sent out; color a beautiful soft flesh-pink; orchid-like in its coloring and texture; growth and habit perfect.

10c each; \$1.00 per doz.; \$6.00 per 100.

tion. Rich, deep crimson, with conspicuous pure white center and throat; beautiful and attractive. peautiful and attractive.

10c each; \$1.00 per doz.

Augusta. A lovely and useful pure white variety. 5c each; 50c per doz.; \$3.50 per 100.

white throat. The best scarlet.
8c each; 75c per doz.; \$5.00 per 100.

Violet. A tall large flowered solid violet, with fine narrow white bars on lower three petals. A strikingly rich color very noticeable.

10c each; \$1.00 per doz. Best Violet.

Iloc each; \$1.00 per duz.

Blue Jay. The nearest approach to a really blue Gladiolus yet sent out; color rich, deep, royal violet-blue. This, when cut in combination with Sulphur King, is truly exquisite.

10c each; \$1.00 per doz.

Chicago White. Pure white with faint lavender streaks in the lower petals. They are borne on tall straight stems and from 5 to 7 flowers are open at one time. It is one of the earliest to bloom hence valuable as a cut flower sort, either for forcing or outdoor planting. to bloom hence valuable as a cut hours sold either for forcing or outdoor planting. 15c each; \$1.50 per doz.

Kunderi "Glory." The broadly expanded, wide open eri "Glory." The broadly expanded, wide open flowers, all face in the same direction and are carried on straight stout stalks, fully 3½ feet. From 3 to 8 of these handsome flowers are open at one time. Each petal is exquisitely ruffled and futed. The color is a delicate cream pink with a most attractive crimson strine in the center of each lower petal. The ruffling of the petals in this new strain has attracted much attention.

15c each; \$1.50 per doz.

Lemoine. Slender spike, well-expanded flowers: upper division of a pale creamy color, flushed salmon, lilac; the lower division spotted violet and yellow. A very dainty variety.....5c each; 50c per doz.; \$3.00 per 100.

Lovely pure white flowers, finely flaked bright rosy crimson; strong spike. Good forcing variety...5c each; 50c per doz.; \$3.00 per 100.

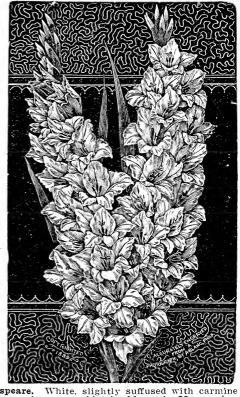
variety...5c each; 50c per doz.; \$3.00 per 100.

Francis King. A magnificent new variety.

The large blooms are of a delightful light scarlet and are well placed on the large spikes, bearing six open flowers at one time.

5c each; 50c per doz.; \$3.00 per 100.

10ps. An especially fine variety, with immense wide-open amaryllis-like flowers, of a rich, dazzling scarlet, marked with white on the lower portion, which serves to intensify the brilliancy of the scarlet, 15c each; \$1.50 per doz.



Shakespeare. rose; large rose blotch..10c each; 90c per doz. Light crimson with large canary-yellow at, mottled maroon; very striking color. Sunlight. ; very striking color.

8c each; 75c per doz. throat, mottled maroon;

ic. Bright lively pink, flecked and striped with shades of the same color. The markings on the lower petals are deep crimson.

10c each; 90c per doz.

Rose. Bright rose or blush tint, exceedingly delicate and pretty. Valuable as a cut flower variety, either for forcing or outdoor planting. One of the best.....15c each; \$1.50 per doz. Wild Rose.

Wm. Falconer. Beautiful clear light pink, spikes of great length and flowers of immense size.

10c each; \$1.00 per doz.

w Bird. An unusually large and vigorous yellow with finely barred lower petals. A splendid shade of yellow, one of the very best in its color..........15c each; \$1.50 per doz. GLADIOLUS IN MIXTURE.

If Gladiolus are wanted by mail, add 10c per doz. or postage. Single bulbs mailed without addi-

for postage. tional charge. Our mixtures offered below are made up of fine

Our mixtures offered below are made up of fine varieties, not the common sorts, which produce themselves so freely, and are all strictly selected bulbs, and are sure to give satisfactory results.

McCullough's Superb Mixture. This is our popular mixture, and is composed of fine sorts, in all colors, in first-size bulbs only. We have tested many brands of mixtures, some of them costing twice as much as this, but have never seen any which surpassed it in variety of coloring or general excellence.

5c each; 35c per doz.; \$2.50 per 100.

American Hybrids Mixed. These are fine early hybrids, and while not as fine as the preceding, the size and coloring of many of the sorts are truly marvelous.

4c each; 25c per doz.; \$1.50 per 100.

GLADIOLUS IN SEPARATE SHADES.

GLADIOLUS IN SEPARATE SHADES. Ea. Doz.

Scarlet and Crimson shades mixed...5c White and Light "...5c Yellow and Orange "...5c Striped and Variegated "...5c \$1.50 2.50 3.50 25c 35c 50c 35c Pink and Rose . . . 5c 35c 2.50

If Gladiolus are wanted by mail, add 10c per doz. for postage.

LILIES.

No class of plants can lay so much claim to our attention as the Lilies. They are stately, elegant and beautiful, and possess the most agreeable perfume, and for general effect, whether growing in garden or house, they have no rivals. The soil should be rich, deep and mellow with good drainage, as nothing will injure the bulbs more than water collecting and standing around them. Do not put manure around the bulbs when setting, as it cellects moisture and insects, and often causes the bulbs to decay. Top dressing is the better way to enrich the soil after the bulbs are set. The beds should be well covered with leaves and straw manure to exclude the frost. Set bulbs four to six inches deep, according to their size. to their size.



Extra strong bulbs
Large bulbs
Large bulbs
Superbum. A hardy native Lily. Flowers bright orange red thickly spotted with purple. A strong growing plant often eight feet, bearing from 20 to 30 flowers.

Tenuifolium (Siberian Lily). A native of Siberia. One of the hardiest Lilies; flowers vivid scarlet, with petals reflexed; showy and free-flowering, blooming early in the spring. It is of easy cultivation requiring only a well-drained sandy soil.

Tigrinum Splendens (Tiger Lily). Orange red, spotted with black.

10c each; \$1.50 per doz.

Tigrinum Flore Pleno (Double Tiger Lily). This is a plant of stately habit, bearing an immense number of double, bright orange-red flowers, spotted with black, three to five feet. August.

15c each; \$1.50 per doz.

LILY-OF-THE-VALLEY.

No garden is complete without a bed of these fragrant flowers. Should be planted in a shady place, where if left to themselves they will spread and increase rapidly.

Large Clumps. Planted in a shady, moist situation, being one of the hardiest of flowers, they require little or no attention. 35c each; \$3.50 per doz. By express or freight at buyer's expense. If wanted by mail, add 20c each for postage.

TUBEROSES.

of the most fragrant and beautiful of the summer flowering bulbs. one of the most tragrant and beautiful of the summer flowering bulbs. By skillful management a succession of flowers may be obtained all the year round. For early flowers they can be started in February or March, in the greenhouse or hotbed; and for succession they can be planted at intervals as late as August. For flowering in the open border, plant about the first of May.

GLOXINIA.

Magnificent for house culture, producing in great profusion beautiful flowers of rich and beautiful colors. They succeed best in sandy loam and peat, and require a moist heat.

Large Flowering Varieties. Finest Mixed......15c each; \$1.50 per doz.

MADEIRA OR MIGNONETTE VINE.

Fleshy, OXALIS. (Summer-Flowering.)



Tuberose Excelsior Pearl.

PALMS, FERNS, BEDDING PLANTS, ETC.

We call special attention to our stock of Palms, Araucarias Ficus, Pandamus and other plants, which is the largest and most complete in the West. We have a full line of sizes, and can offer special inducements on FINE SPECIMEN PLANTS. Whenever possible we solicit a personal inspection of our stock either at NURSERIES OF THE MCCULLOUGH SEED CO., McCullough Station, Pleasant Ridge, Ohio, or at OUR STORE, 316 Walnut Street, Cincinnati, Ohio. Send all correspondence to our Cincinnati offices. Palms, Ferns, Araucarias, Dracaenas and other plants can only be sent by express at purchasers' expense.

PALMS.

ARECA LUTESCENS. One of the most graceful and beautiful palms grown; the foliage is of a bright glossy green, with rich golden yellow stems. \$1.00 to \$5.00

\$2.50 to \$4.00



FERNS.

ADIANTUM CUNEATUM. The popular Maiden Hair Fern....25c to \$1.00 ADIANTUM FARLEYENSE. This is the finest of all the Maiden Hair varieties

CYRTOMIUM FALCATIUM (Holly Fern). Bright shining green pinnate foliage always attractive, easy of culture and one of the best of house ferns.

NEPHROLEPIS BOSTONIENSIS (Boston Fern). The frods arch and droop very gracefully, on account of which it is frequently called the Fountain Fern. This drooping habit makes it an excellent plant to grow as a single specimen on a table or pedestal.

50c to \$2.50

We have a few handsome Specimen Plants of Nephrolepis in hanging baskets and pots from \$3.50 to \$10.00 each.

NEPHROLEPIS ELEGANTISSIMA COMPACTA. A Dwarf Form of Nephrolepis Elegantissima, making dense, bushy, compact growth of ideal habit and shape. It forms a round, symmetrical, compact mass of foliage. One of the most valuable Ferns.

\$1.00 to \$5.00



MISCELLANEOUS HOUSE PLANTS.

ARAUCARIAS. Tender, but deservedly popular evergreens, and classed among the handsomest and most serviceable of decorative plants. We offer Araucaria Excelsa. Araucaria Excelsa Glauca and Araucaria Robusta from \$1.00 to \$5.00 each, according to size and variety.

ASPARAGUS SPRENGERI. A beautiful, graceful plant of drooping habit, for pots or hanging haskets

ASPARAGUS PLUMOSUS NANUS. Fine decorative vine, easily grown, and of a light, feathery growth.

10c, 25c to \$2.00

10c, 25c and 50c.

15c, 25c and 50c.

GENERAL LIST OF BEDDING PLANTS.

	Each	. Per	Doz.		Each.	Per	Doz.
AGERATUM, blue	10c		\$1.00	LANTANA	10c		1.00
ALTERNANTHERA, of				LOBELIAS, sorts	8c		.75
sorts	8c		.75	MARIGOLDS, sorts	5c		.50
ASTERS, assorted col-			1	NASTURTIUMS, sorts	5c		.50
ors	5с		.50	PANSIES		.50 to	.75
CANNAS, DWARF,				PETUNIA, double; sorts.	15c		1.50
started	15c		1.50	PETUNIA, single; sorts	10c		1.00
CENTAUREA GYMNO-				PHLOX DRUMMONDII .	5c		.50
CARPA	10c		1.00	SALVIA, scarlet	10c		1.00
COLEUS, new sorts	8c		1.00	VERBENAS, finest	8c		.75
GERANIUM, sorts10c to	15c	\$1.00 to	1.50	VINCAS, sorts	8c		.75
HELIOTROPE, sorts	10c		1.00	ZINNIAS, sorts	5c		.50
, 444.00							

EVERBLOOMING HYBRID-TEA ROSES.

We do not recommend the mailing of Roses.

American Beauty. This is the queen of all roses, being extra large, full and fragrant. The color is a fine deep pink shaded toward the center a carmine crimson. We do not recommend it for outdoor culture.

Burbank. Color, bright pink; strong, vigorous grower, perfectly hardy, fragant and free-flowering.

Etoile de France. Rich, velvety crimson, with cerise-red center. A strong, vigorous grower, with good flowers, which are full and double and as beautiful in the bud as in the full-blown flower, and borne on strong, upright shoots in great profusion.

Etoile de Lyon. Deep golden yellow; very large and full buds, strong, vigorous grower; fine for outdoor summer blooming.

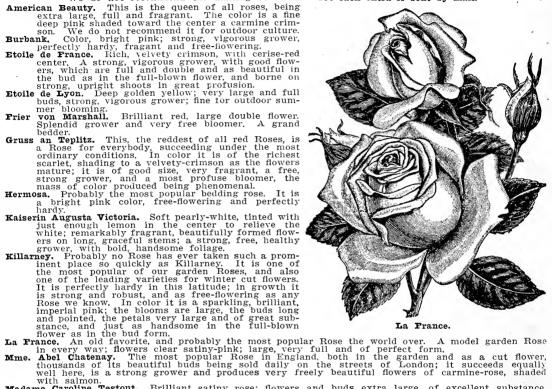
Frier von Marshall. Brilliant red, large double flower. Splendid grower and very free bloomer. A grand bedder.

Splendid grower and very free block.

bedder.

Gruss an Teplitz. This, the reddest of all red Roses, is a Rose for everybody, succeeding under the most ordinary conditions. In color it is of the richest scarlet, shading to a velvety-crimson as the flowers mature; it is of good size, very fragrant, a free, strong grower, and a most profuse bloomer, the mass of color produced being phenomenal.

Hermosa. Probably the most popular bedding rose. It is a bright pink color, free-flowering and perfectly hardy.



with salmon.
Madame Caroline Testout. Brilliant satiny rose; flowers and buds extra large, of excellent substance,

Solor, beautifully shaped double flowers. A grand rose.

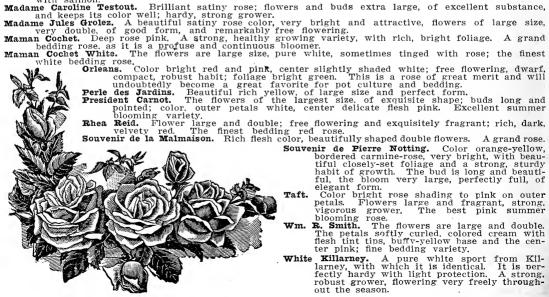
Souvenir de Fierre Notting. Color orange-yellow, bordered carmine-rose, very bright, with beautiful closely-set foliage and a strong, sturdy habit of growth. The bud is long and beautiful, the bloom very large, perfectly full, of elegant form.

Tatt. Color bright rose shading to pink on outer petals. Flowers large and fragrant, strong, vigorous grower. The best pink summer blooming rose.

Wm. B. Smith. The flowers are large and double. The petals softly curled, colored cream with flesh tint tips, buffv-yellow hase and the center pink; fine bedding variety.

White Killarney. A pure white sport from Kil-

White Killarney. A pure white sport from Killarney, with which it is identical. It is verfectly hardy with light protection. A strong, robust grower, flowering very freely throughout the season.



HARDY HYBRID PERPETUAL ROSES.

Among all the hardy plants few are so commonly well liked or more valuable than the roses, particularly the "June Roses" as the Hybrid Perpetuals are called. They are strong growers, bearing large globular flowers and are so hardy that they succeed in any locality. The severest winters will not kill them but it is generally conceded that protection is beneficial when the straw, manure, cornstalks or other covering is not so thick as to be unnatural and smother them.

Extra Strong Plants, 50c each; \$5.00 per dozen.

Captain Christy. A lovely rose, very large, double buds of a deep fiesh color.

Captain Hayward. Bright crimson-carmine; a distinct shade of color, of perfect form, and very sweet.

Coquette des Blanches. White tinted pink, medium size, perfect form.

Duc de Rohan. Brilliant carmine, high center; excellent

Karl Druschki. The ideal hardy white rose, pure in color, perfect in form; strong grower and free flowering. Frau Karl Druschki.

General Jacqueminot. Brilliant scarlet crimson, of fine

General Jacqueminot. Brilliant scarlet crimson, of fine shape and exquisite fragrance.

Harrison's Yellow. The Hardy Yellow Rose of olden times. Deep golden yellow, semi-double and very hardy, suitable for planting in old fashioned gardens and amongst shrubs, prune lightly as this variety flowers on the previous year's growth.

Madame Plantier. Pure white and a free bloomer; unrivalled for hedges or cemetery use.

Magna Charta. Bright pink, suffused with carmine; strong vigorous grower.

Mrs. John Laing. Soft pink, of beautiful form: exceed-

vigorous grower.

Mrs. John Laing. Soft pink, of beautiful form; exceedingly fragrant and free flowering.

Mrs. E. G. Sharmon Crawford. Deep rosy pink, outer petals shaded with pale flesh; a beautiful rose.

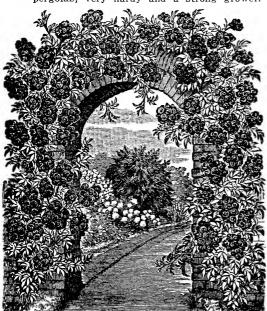
Paul Neyron. Very large dark rose; by far the largest rose in cultivation.

Ulrich Brunner. Bright cerise-red; flowers large and full.

MOSS ROSES.

Crested Moss. Rose color, beautifully crested.
Strong Plants, 50c each: \$5.00 per dozen.
HARDY CLIMBING ROSES.

Extra Strong Plants, at 50c each; \$5.00 per dozen, ason Rambler. This grand old climber hardly n Crimson Rambler. This grand old climber hardly needs description. The magnificent trusses of bright crimson flowers are freely produced and admired by everyone. It is still one of the easiest of Roses to succeed with. Unsurpassed for walls, hedges, pillars, arches, pergolas; very hardy and a strong grower.



Crimson Rambler.



Gen. Jacqueminot.

Dorothy Perkins. A g

Dorothy Perkins. A good one. As hardy as Crimson Rambler. The flowers are borne in clusters and are very double; the petals are very prettily rolled back and crinkled. The color is a most beautiful shell pink and holds a long time without fading.

Flower of Fairfield. (Ever Blooming Crimson Rambler.) A sport from Crimson Rambler, with same climbing habit, hardiness and immense trusses of crimson flowers. It flowers on the young wood in its first year, is of vigorous growth, and when in bloom supersedes anything else by the wonderful display of its immense clusters of blossoms. It starts blooming in early spring and continues to flower till late in fall.

Gardenia. (Wichuriana.) Buds bright yellow, opening double flowers of a cream color, incurving towards evening to the shape and the color of a cape jessamine. Suitable for climbing over walls, arbors, stumps of trees and for trailing

walls, arbors, stumps of trees and for trailing over rocks or rough ground. The foliage is retained on the plants almost the entire winter, making them practically evergreen.

Michigan Climber. Single variety; flowers nearly two inches in diameter; produced very freely; color, bright rich pink; strong, vigorous

color, grower.

Rambler. Pure satiny rose, single in clusters. The partially open buds being bright light car-mine, thus producing a strong and pleasing

mine, thus producing a strong and pleasing contrast.

White Dorothy Perkins. This beautiful new Rose is the counterpart of the well known Dorothy Perkins, excerting in the color which is pure white. Already a universal favorite.

White Rambler. Closely resembles the Crimson Rambler in vine and foliage. Large clusters of pure white single flowers, which are deliciously fragrant. The flowers remain on the plant a long time and keep a long time when cut. cut.

v Rambler. The flowers are borne in immense clusters, often as many as 150 blossoms in a bunch. The color is a decided yellow; the flowers are very fragrant; the habit of growth is very vigorous. Well established plants often making shoots eight to ten feet in one season.

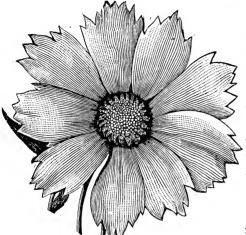
ROSA RUGOSA. Yellow Rambler.

The lovely Rugosa Roses form sturdy bushes three to five feet in height, covered with handsome, glossygreen foliage and clusters of beautiful single flowers, which emit a delightful odor. They bloom nearly the whole summer, and are covered during autumn and winter with red seed pods.

Bugosa. Glossy crimson. Bugosa Alba., Pure white. Bugosa Blanche de Coubert. Double pure white. Strong Plants 30c each; \$3.00 per dozen. Extra Strong Plants 50c each; \$5.00 per dozen.

HARDY HERBACEOUS PERENNIAL PLANTS.

The steadily increasing demand for hardy plants has induced us to give them more attention and to increase our stock considerably. For such of our customers who are not acquainted with the different varieties we shall be pleased to make suitable selections of the most desirable species, that when once planted, with very little care, will keep the garden gay with flowers from the time frost leaves the ground until late in autumn.



15c each; \$1.50 per dozen (except where noted). If sent by mail, 20c each.

Anchusa Italica, Dropmore Variety. A strong growing plant 5 to 6 feet high with broad foliage and large spikes of beautiful blue flowers the entire season.

Anemone Queen Charlotte. Large semi-double pink flowers. The most popular of all.

Anemone Whirlwind. Large se ers; very free flowering. Large semi-double, pure white flow-

Anthemis Tinctoria. The hardy Marguerites are among the most satisfactory summer-flowering perennials, growing about 15 inches high and blooming continuously during the entire summer. Large golden vellow flowers.

Antirrhinum. (Snap Dragon.) Assorted colors.

gia. (Columbine.) Favorite late spring and early summer blooming plants, growing about two feet high. Assorted colors. Aquilegia.

high. Assorted colors.

Arabis Alpina. A dwarf growing plant completely covered with white flowers in early spring.

Begonia, Hardy. Exceedingly useful plants for the garden, good for shady paces. Lustrous bronze green foliage with small pink flowers.

Baptisia Australis. (False Indigo.) Strong grower, with dark green, deeply cut foliage, and spikes of dark blue flowers in June and July; 2 feet.

Bocconia Cordata. An attractive plant, growing 6 to 8 feet high, with large foliage and long spikes of white flowers in August. Well adapted for single lawn specimens.

Boltonia Latisquama. (False Chamomile.) Large single,

ila Latisquama. (False Chamomile.) Large single, Aster-like flowers, blooming profusely during sum-mer and autumn. Pink, slightly tinged with laven-**B**oltonia

Lychnis Chalcedonica. A desirable plant, grows 2 to 3 feet high; flowers, brilliant orange scarlet; blooms all summei

Lychnis Viscaria. (Ragged Robin.) A showy double variety, with deep red fragrant flowers, remaining in perfection for six weeks.

with deep red fragrant flowers, remaining in perfection for six weeks.

Lythrum Roseum Superbum. (Rose Loose Strife.) A strong growing plant. 3 to 4 feet high. producing large spikes of rose colored flowers from July to September.

Mertensia Virginica. (Blue Bells.) An early spring flowering plant growing about 1 to 1½ feet high, with drooping panicles of handsome light blue flowers, changing to clear pink; one of the most interesting of our native spring flowers; May and June.



Dielytra Spectabilis.

HARDY HERBACEOUS PLANTS—Continued.

we offer the following list of named sorts: Azuma Nishiki, No. 15. Outer petals have soft pink ground, shading to white at edges, inner netals lilac. Bright yellow star center, standards white with red borders. Azuma Viki, No. 81. Petals rosy purple with heavy white veins, standards brownish-red, striped with white, yellow star center. Banrai Nami, No. 1. Petals pale pinkish white with white standards and yellow center. Ezonishiki, No. 6. Petals heavily splashed with purple on white ground, standards brown with purple on white ground, standards brown with purple shading, large yellow star center. Furomon, No. 28. Petals bright pink, shading to creamy white, with heavy purple veins, standards purple, yellow center. Gosetsu No Mai, No. 12. Petals light blue, yellow star center, white dark bluish purple standards. Hitome-No-Seki, No. 93. Petals pink and creamy white, beautifully blended, standards deep pink blotched with white, large yellow star center. Japanese Iris. Kokyo Bare, No. 24. Petals brownish red shading to pink, spotted with white and heavily veined, standards. Kokyo Bare, No. 25. Petals brownish-red with light brown veins, center yellow, standards scarlet striped with white. Krishi-Ikari, No. 85. With white. Kuro Kumo, No. 72. Petals intense bluish-purple, heavily veined, bright yellow center, with light purple standards. Kyo-Dal-Yama, No. 59. Petals indigo, standards greenish blue striped with white, large yellow center.

JAPANESE IRIS.

(Iris Kaempferi.)

A few years since we began importing this beautiful class of plants from Japan, and the demand is yearly increasing as their beauty and value become better known. No place, however small, is now complete without a collection. They are most effective when planted by groups, and thrive best in a moist soil. The flowers are of immense size, from six to eight inches in diameter and of the most beautiful and delicate shades. They are perfectly hardy, flowering in great profusion during June and July.

We offer the following list of named sorts:

Kyo-Dai-Yama, No. 59. Petals indigo, standards greenish blue striped with white, large yellow center.

Manazum, No. 79. Petals soft lilac with darker veins, yellow center, standards purple, striped creamy white.

Minoji Ga Taki, No. 15. Petals bright pink with dark carmine veins, standards lavender striped with white,

center yellow.

Ogino-Mato, No. 19. Outer panels, indigo purple shading to lilac, inner petals, pink and white with yellow center, standards brownish red, marbled with creamy white.

Okino-Kamone, No. 65. Petals recurved and creamy white, standards pure white, large bright yellow

Above named varieties, 25c each; \$2.50 per dozen. By mail 30c each.

Finest Mixed. 15c each; \$1.50 per dozen. By mail 20c each.

GERMAN IRIS. (Iris Germanica.)

The German Iris is one of the most desirable early spring flowering plants. The flowers of large size and of exquisite colors. No garden is complete without a collection off these beautiful "flags."

Barn von Humboldt. Dark blue.
Canary Bird. Light yellow or buff, very fine.
Coernlea. Sky blue.
Florentina Alba. White; one of the most desirable.
Florentina Coerulea. Blue, very fine.
King of Yellows. Yellow.
L'Innocence. Pure white veined with orange purple.
Mad. Cherau. Standard and falls pure white; daintily edged with light blue.
Mont Blanc. Pure white.
Furpurascens. Dark purple.
Queen Victoria. Blue, gradually changing to pale bluish white.

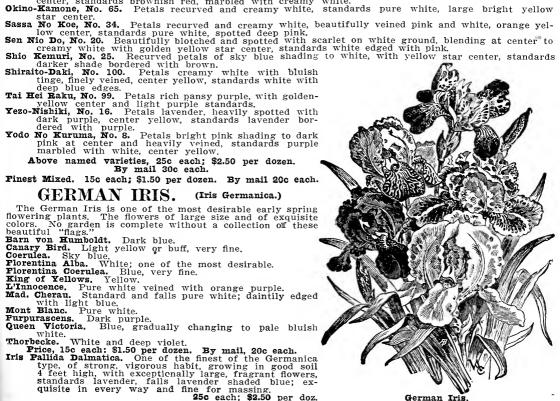
Queen Victoria. Blue, 5. audul.

Thorbecke. White and deep violet.

Price, 15c each: \$1.50 per dozen. By mail, 20c each.

Iris Pallida Dalmatica. One of the finest of the Germanica type, of strong, vigorous habit, growing in good soil 4 feet high, with exceptionally large, fragrant flowers, standards lavender, falls lavender shaded blue; exquisite in every way and fine for massing.

25c each; \$2.50 per doz.



HARDY HERBACEOUS PLANTS—continued.



Phlox.

PHLOX DECUSSATA—HARDY PHLOX.

These are justly esteemed as the finest herbaceous plants. They are dwarf habit, perfectly hardy, of very easy culture, and yield a profusion of bright showy bloom. They are hardly equaled by any other hardy plant for the decoration of the garden.

15c each; \$1.50 per dozen. If sent by mail, 20c each.

Beranger. White ground delicately shaded with pink and distinct red eye.

Bridesmaid. Pure white, with large crimson-carmine eye.

Coquileoot. Bright orange-scarlet, with crimson eye; extra large compact flower heads.

Daubigny. Rosy purple, with enormous florets, extra fine.

Eclaireur. Dark crimson, center rose, surrounded with white,

an excellent variety.

Etna. Deep fiery red, dark eye, One of the most brilliant.

F. G. Von Lassburg. The finest white flowers; very large; strong vigorous grower.

Geo. A. Strohlein. Bright scarlet, with crimson red eye; large flowers, does not bleach in the sun.

Hermine. The best dwarf, pure white, early, fine for border; a perfect little gen.

a perfect little gem.

Independence. An excellent large flowering early, pure white.

Maculata. Tall growing, many branched, pyramidal trusses of

Maculata. Tall growing, many branched, pyramidal trusses of bright purple.

Miss Lingard. (Suffruticosa.) Pearly white, very early and

Obergartner Wittig. Large, crimson-carmine flowers, vigorous grower.

grower.

Pantheon. Bright carmine rose; large and fine.

R. P. Struthers. Bright rosy-carmine, with claret-red eye.

Richard Wallace. White with bright crimson center, large flowers in immense panicles.

Selma. A pretty, delicate, soft, pale rose, with distinct red eye.

Snowflake. Large pure white, large flowering variety.

Thebaide. Salmon with carmine eye, dwarf, extra fine.

Wm. Robinson. Bright pink. Tall growing variety, suitable for back rows. Thebaide. Salmon wwm. Robinson. Brig for back rows.

The above plants, 15c each; \$1.50 per dozen. If sent by mail 20c each.

STANDARD VARIETIES DOUBLE HERBACEOUS PAEONIES.

Magnificent, hardy plants, almost rivaling the rose in perfume, brilliancy and color and perfection of oom. They are perfectly hardy, require little or no care, and produce larger or finer blooms when bloom. They ar well established.

andolle. Currant red, tinged amaranth; distinct color, best of its shade very large and double...........50c each; \$5.00 per doz. Candolle.

Edulis Superba. Bright mauve pink color mixed with lilac, fragrant, strong upright stems, free bloomer, early, one of the best commercial pinks35c each; \$3.50 per doz.

Felix Crousse. Large double ball-shaped bloom; color brilliant red; one of the finest self-colored varieties....60c each; \$6.00 per doz.

Floral Treasure. Large, full, clear pink with lighter center; blooms large on heavy stems.
40c each; \$4.50 per doz.

e D'Arc. Outside petals rose colored, inside straw colored, with crimson spots.
60c each; \$6.00 per doz. Jeanne D'Arc.

Livingstone. Soft rosy pink, silvery reflex, strong long stems, best late pink.
75c each; \$7.50 per doz.

ce. Light rose, with flesh colored center; extra fine.......40c each; \$4.50 per doz. Lucrece.

Marie Lemoine. Large sulphur white shaded with pink; a magnificent variety.

50c each; \$5.00 per doz.

ionier. Broad outer petals brilliant purple amaranth, inner petals crimson, free bloomer. 35c each; \$3.50 per doz.

Purpurea Superba.

rea Superba. Large purplish-crimson, large guards, center petals small; tall growing.
30c each; \$3.50 per doz.

Queen Victoria. Large, full compact bloom, opening flesh, changing to white, center petals tipped with carmine. 30c each; \$3.00 per doz.

Tricolor Rosea. Dark violet rose; large globular flower40c each; \$4.50 per doz.

Officinalis Alba Plena. Light pink changing to white30c each; \$3.00 per doz.

Officinalis Rosea Superba. Large rose, very early and fine30c each; \$3.00 per doz. Officinalis Rubra Plena. The old fashioned deep

crimson Peony; early..30c each; \$3.00 per doz.

Unnamed Varieties. Colors, crimson, rose and white25c each; \$2.50 per doz.

JAPANESE SINGLE PAEONIES.

The single Peonies are even more beautiful than the double. They are larger in size of flowers and more delicate in coloring. No other plant flowering at the same season can vie with the Single Peony for beauty, and an established bed, when in full bloom, with the large, silky flowers, and appearing like immense single Roses, is simply gorgeous.

We offer the following colors: Carmine, Crimson, agenta, Maroon, Purple and Rose. **30c** each: Magenta, Mar \$3.00 per doz.

HARDY GARDEN PINKS.

Old favorites, bearing sweet clove-scented flowers in the greatest profusion during May and June. 1 foot.

Delicata. Soft delicate rose; very free.

Her Majesty. Large, double, white, clove-scented flowers.

Homer. Rich, rosy-red, with dark center. Napoleon III. Large double, crimson flowers, fragrant; the finest of all hardy pinks.

15c each; \$1.50 per dozen (except where noted). If sent by mail 20c each.

HARDY HERBACEOUS PLANTS-Continued.

ORIENTAL POPPIES.

(Papaver Orientale.)

These are the regal representatives of this popular genus, far surpassing in splendor of bloom all the annual and biennial kinds, and for a gorgeous display of rich and brilliant coloring nothing equals them during their period of flowering in May and June, and whether planted singly or in masses their large flowers and freedom of bloom render them conspicuous in any position. After flowering the plants die back, usually reappearing along in early September, or as soon as the weather gets cool. During this resting period care should be taken in cultivating the beds that the roots are not disturbed, any disturbance at this time usually resulting in failure. We offer the following distinct varieties:

Goliath. Flowers scarlet, of enormous size.

touch of carmine.

Princess Victoria Louise. Soft Lilac rose.

Procerpine. Dark Lilac with large black blotch. Mary Studholme. Salmon, with silvery shade and a Royal Scarlet. Mammoth scarlet flowers with black center.

Salmon Queen. Soft, salmon-scarlet, very distinct.

The above named varieties, 25c each; \$2.50 per dozen. Finest Mixed Varieties, 15c each; \$1.50 per dozen.

ICELAND POPPIES.

(Papaver Nudicaule.)

Price of the following, 15c each; \$1.50 per dozen. If sent by mail 20c each.

Pentstemon Barbatus Torreyii. Spikes of briliant scarlet flowers; height 3 to 4 feet; June to August;

very effective.

Physostegia Virginica. One of the most beautiful of our mid-summer flowering perennials, forming dense bushes 3 to 4 feet high, bearing spikes of delicate tubular pink flowers. Strong plants.

Platycodon Grandiflorum. Large bell shaped, blue flowers, blooms from July to September. Rapid growing plant of branching habit; 2 to 3 feet high.

Platycodon Mariesi. Deep blue, bell-shaped flowers, nearly 3 inches across; 1 to 2 feet high.

Rudbeckia, Golden Glow. One of the most desirable, effective flowering plants for August and September. It grows six feet high, branching freely and throwing up masses of large double yellow flowers. Invaluable for cutting.

Rudbeckia Newmanni. Dark orange yellow flowers, purple cones freely produced. 2 feet high, a gem for cutting.

Rudbeckia Purpurea. (Giant Purple Cone Flower.) Flowers about 4 inches across; of a reddish purple. with large, cone-shaped center of brown; thickly set with golden tips in spiral lines; forms bushy plants from 2 to 3 feet high. Blooms July to October.

Sedum Spectabilis. (Brilliant Stone Crop.) One of the pretiest erect growing species, attaining a height of 18 inches with broad light green foliage and immense heads of handsome, showy rose colored flowers.

Shasta Daisy.

Perfectly hardy, of easy cultivation and blooms for several months.

petals of the purest white. June to October.

sia Cyanea. (Cornflower Aster.) Produces showy Aster-like deep blue flowers which measure from 4 to 5 inches across. It is of the easiest culture, succeeding in any open sunny position. The plant grows from 18 to 24 inches high, blooming freely from July until frost. Stokesia Cyanea.

William. (Dianthus Barbatus.) Beautiful old-fashioned favorite Sweet border plant.

Tritoma Pfitzerii. The flower spikes, which are produced freely, are of gigantic size, frequently 4½ feet high, with heads of bloom over 12 inches long, of a rich orange scarlet, shading to a salmon rose on edge. A first-class acquisition.

Valeriana Officinalis. (Hardy Garden Heliotrope.) Produces showy rose-pink heads of flowers during June and July with strong heliotrope odor.

Veronica Longifolia Subsessilis. A pretty species with blue flowers, produced on spikes a foot long, continuing in bloom the entire summer and fall.

Vinca Minor. Minor. (Periwinkle or Trailing Myrtle.) An excellent dwarf ever-green trailing plant that is used extensively for carpeting the ground under the shrubs and trees, or on graves where it is too shady for other plants to thrive.



Yucca Filamentosa

Fliamentosa. (Adam's Needle.) A hardy evergreen plant with long, narrow leaves that are bright green the whole year round. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine stately lawn plant.

The above plants 15c each; \$1.50 per dozen (except where noted). If sent by mail, 20c each. Yucca Filamentosa.

ORNAMENTAL GRASSES.

Arundo Donax. (Great Reed.) An ornamental giant grass, growing ten to twelve feet high.

Arundo Donax Variegata. A variegated form of the above, growing six to eight feet high.

Erianthus Ravennae. (Plume Grass.) Grows six to eight feet high, and produces handsome plumes in

a Gracillima. (Japan Rush.) The most beautiful of all the Eulalias, with narrow, graceful foliage, entirely green without variegation, except that the mid-rib is of a silver sheen. Perfectly hardy, very valuable. Eulalia Gracillima.

Eulalia Japonica Variegata. Leaves striped white and green longitudinally.

Eulalia Zebrina. (Zebra Grass.) A peculiar variegated grass, growing six feet high. The varie is unlike that of any other plant, being across the leaf in regular bands, dark green and yellow alternating. The dried blooms of all the Eulalias make beautiful winter ornaments. The variegation and

25c each; \$2.50 per dozen. 10c each extra by mail.

ORNAMENTAL FLOWERING SHRUBS

Shrubs are as much a part of the garden as the lawn or flower borders, and a well arranged planting presents an attractive appearance throughout the entire year.

Shrubs have many uses. As a background to a flower border, for hiding an unsightly building, fence or foundation, or they may be planted in a mixed shrubbery border, in which case those of short, dense growth should be planted along the front of the border, graduating to the tall-growing kinds at the back.

Thorough preparation of the soil by spading, and the addition of a liberal quantity of sheep or stable manure or bone meal will be well repaid by strong, vigorous, healthy growth. In planting, care should be taken not to overcrowd, allowing sufficient room for future development, and unless an immediate effect is wanted—in which case they may be planted closer and some of them moved when necessary. The majority of the dwarf-growing kinds may be set about three feet apart, the tall, strong growers about five feet apart.

Our Shrubs are transplanted every two or three years and are furnished with plenty of fibrous roots and should not be compared to stock that is never moved from the cutting beds until sold.

We can furnish Extra Strong Specimen Plants of most all sorts at \$1.00 to \$5.00 each.



nts of most all sorts at \$1.00 to \$5.00 each.

Almond Double Flowering. A desirable class of early flowering shrubs, erect slender branches, covered with small double pink flowers.

60c each; \$6.00 doz.

Althea (Rose of Sharon). The Altheas are among the most valuable of our hardy Shrubs on account of their late season of blooming, which is from August to October, a period during which but few Shrubs or trees are in flower. They are also extensively used as hedge plants, for which they are admirably adapted.

Althea Purpurea, large single purple.

50c each; \$5.00 doz.

Althea Totus Albus, single pure white.

50c each; \$5.00 doz.

Althea Double Rose, Double White and Double Purple.

50c each; \$5.00 doz.

Althea Small Flants.

30c each; \$5.00 doz.

Azalea Amoena.

A bushy dwarf evergreen with small green leaves that deepen to a lustrous coppery hue in winter. Its neat appearance is attractive at all seasons but in April or May the whole plant is a mass of brilliant rosy crimson flowers that hold their beauty three or four weeks. \$1.00 each

Azalea Anthony Koster. One of the prettiest of the Mollis section. Its intense golden orange-yellow flowers are of exceptional large size, and are produced very freely early in May; most useful to plant in front of the shrubbery or in connection with Rhododendrons.

\$1.25 each

Azalea Mollis. A splendid hardy species from Japan, and one of the most valuable flowering shrubs. Flowers large and showy, yellow and different shades of red, in fine trusses.

\$5.00 each; extra strong plants

\$1.00 each

\$2.00 each; extra strong plants

\$1.00 each

\$2.00 each; extra strong plants shrubs growing \$3 to 5 feet high with

ORNAMENTAL FLOWERING SHRUBS-Continued

Desmodium Penduliforum, a shrub-like plant that dies to the ground in winter, but comes up vigorously in spring, throwing up shoots 3 to 4 feet high which bear during September attractive sprays of bright rose-colored flowers, 40c each; \$4.00 doz.

ers, 40c each; \$4.00 doz.
Strong plants...........50c each; \$5.00 doz.
Duetzia Crenata Flora Plena, flowers double white,
tinged with pink, very desirable, 2 to 3 feet.
30c each; \$3.00 doz.
Deutzia Gracilis, a dwarf bush, covered with spikes

fore the leaves.
\$2.50 each. Extra strong plants \$4.00 to \$5.00 each.

Magnolia Halleana. (Stellata.) A pretty dwarf form that opens its snowy, semi-double flowers in April; earlier than any other Magnolia. Their fragrance is pronounced and delicate.

\$2.50 each.

\$3.00 doz. Strong plants...50c each; \$5.00 doz.

Hydrangea Faniculata Grandiflora Standard or Tree
Shaped Plants. These are fine specimen plants,
four and five years old, trained to tree shape
with about three feet of straight stem and
nicely shaped heads, should bloom profusely
the first year........75c each; \$7.50 doz

Kalmia Latifolia. (Mountain Laurel.) Bushy
shrubs, with elongated oblong leaves, which
are always fresh and glossy, in early spring,
they bloom profusely. Delicate pink and
white flowers. They are useful for massing
with Rhododendrons or for wooded effects.
\$1.00 each; \$10.00 doz.



ORNAMENTAL FLOWERING SHRUBS-Continued.

Ribes Aureum. (Yellow-flowered or Missouri Currant.) A native species with glabrous, shining leaves and yellow flowers; the flowering currants are beautiful shrubs in early spring, and of easiest culture. 30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz. Robinia Hispida. (Rose Acacia.) A native species of the Locust, of spreading, irregular growth, with long, elegant clusters of rose-colored flowers in June and at intervals throughout the season.



Spiraea Van Houttei.

ball of white when in bloom.

30c each; \$3.00 doz.

Spirea Van Houttei. The grandest of all the Spireas;
it is a beautiful ornament for the lawn at
any season, but when in flower it is a complete fountain of white bloom. Clusters of
20 to 30 flat white florets make up the racemes, and these clusters are set close along

the drooping stems. Perfectly hardy and an early bloomer.

25c each; \$2.50 doz. Strong plants 50c each; \$5.00 doz.

Tamarix, Africana. Of graceful spreading growth, covered with pink flowers in early spring.

40c each; \$4.00 doz.

Viburnum Opulus. (High Bush Cranberry.) Both ornamental and useful. Its red berries resembling cranberries, esteemed by many, hang until destroyed by frost late in the fall.

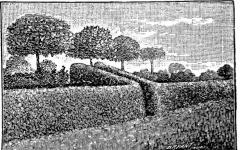
30c each; \$3.00 doz. Strong plants 50c each; \$5.00 doz.

Viburnum Sterilis. (Snowball.) A favorite shrub of large size. with globular clusters of pure white sterile flowers the latter part of May. 25c each; \$2.50 doz. Strong plants 50c each; \$5.00 doz.

Viburnum Plicatum. (Snowball.) Appan.) One of the most valuable hardy shrubs. It forms an erect, compact shrub six to eight feet high; blooms in early June, and for a long time is a solid mass of white

HEDGE PLANTS.

Berberis Thunbergii. Barberry.



California Privet Hedge with Catalpa Bungei on Terrace.

HARDY CLIMBING PLANTS.



Ampelopsis Veitchii. (Japan Creeper or Boston Ivy.) The leaves are small on young plants, which at first are an olive green color, changing to red in the autumn. As the plant acquires age the leaves increase in size. Without question one of the very best climbing plants for covering brick or stone walls that can be grown.

25c each; \$2.50 doz.; by mail, 30c each. Ampelopsis Robusta. A strong vigorous grower. It will make double the growth of the Veitchii and is just as hardy.

25c each; \$2.50 doz.; by mail. 30c each. Ampelopsis Quinquefolia. (Virginia Creeper or American Ivy.) For covering walls, verandas and trunks of trees. A rapid grower with beautiful leaves that become rich crimson in autumn.

with beautiful leaves that become rich crimson in autumn.

25c each; \$2.50 doz.; by mail, 30c each.

Aristolochia Sipho. (Dutchman's Pipe.) A magnificent hardy vine of rapid growth, with very large heart-shaped leaves, and brownish flowers, resembling a pipe.

50c each; \$5.00 doz.; by mail, 60c each.

Bignonia Radicans. (Trumpet Vine.) An oldtime favorite. Flowers trumpet-shaped, bright scarlet. A rapid grower.

25c each; \$2.50 doz.; by mail, 30c each.

Celastrus Scandens. (Climbing Bitter Sweet.) Of rapid growth, light green foliage and yellow flowers during June, which are followed in the autumn with orange fruit.

Enceysuckle—Aurea Reticulata. Foliage beautifully variegated yellow and green with yellowish white fragrant flowers.

Honeysuckle—Monthly Fragrant or Dutch. Blooms all summer.

all summer.

CLEMATIS, LARGE-FLOWERING.

CHINESE WISTARIA.

BAY TREE. (Laurus Nobilis.)

There is nothing so effective for decorating Height of Stem.

| Alard or Tree | Shaped | -30 to 36 inches | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Standard or Tree Shaped-

BUAMOUD ABLES

		BUAWOUD TREES.	
	Plants in	eautiful pyramidal specimens and also in standard, or tree form.	
Pyra	mid Shape	2½ feet high	r.
•		3 feet high	r.
•		3½ feet high 4.00 each, 7.00 pai	r.
•	•	4 feet high 5.00 each, 9.00 pai	r.
•	-	4½ feet high 6.00 each, 11.00 pai	r.
•		5 feet high 8.00 each, 15.00 pai	r.
Glob	e Shaped.	1½ feet high by 1½ feet in diameter\$5.00 eac	h.
"	**	2½ feet high by 2½ feet in diameter	h.
Bush	Shaped.	l foot high	
"	"	1½ feet	h.
"	66	2 feet\$2.00 to \$2.50 eac	h.
"	66	2½ feet\$3.00 to \$4.00 eac	h.
66	44	B feet\$4.00 to \$5.00 eac	h.
	dard or T	e e S haped\$3.50 to \$15.00 eac	
Box		eful principally for borders and edging. 6 inches. \$1.00 doz.: \$7.00 p	
	100. Ex	a strong hushy plants	JO.



Box, F, Shape. Pyramid

EVERGREEN TREES.

Large-Sized Specimen Evergreens.

We offer the following which have been grown in ample space and transplanted and are in the best condition to plant for immediate effect.

Abies Balsamea. (Balsam Fir.) A regular symmetrical tree assuming the cone shape when quite young. Leaves dark green, lighter beneath.

when quite young. Leaves dark green, lighter beneath.

2 to 3 ft., 75c; 3 to 4 ft. \$1.00 to \$3.00

Abies Bracyphylla. A magnificent Japanese fir, with erect stem regularly whorled horizontal branches.

Specimen trees, 2 to 3 ft.... \$2.50 to \$3.00

Abies Nordmanniana. (Nordmann's Fir.) A thick dense tree. The needles are wide dark green, with a silvery under surface. One of the best evergreens. Specimen Trees, 2 ft., \$2.50; 3 ft., \$4.00; 4 to 5 ft., \$5.00 to \$6.00; 6 ft., \$12.00 to \$15.00.

Abies Veitchii. A magnificent tree of splendid habit. The needles are dark green above and silvery white beneath...\$5.00 to \$8.00

Juniperus, Pfitzeriana. Specimen Trees.

\$5.00 to \$1.00

Juniperus, Sabina. (Savin Juniper.) A thickly branched dwarf spreading shrub with dark green foliage; 2 to 2½ ft., \$2.00.

Specimen trees................\$5.00 to \$10.00

Juniperus, Sabina Tamaricifolia. (Tamarax

Pungens Glauca Pendula (Koster's Weeping Blue Spruce.) Specimen trees, 2½ to 3 ft., \$7.00; 4 ft., \$10.00.

Austriaca. (Austrian Pine.) A tall tree.

Specimen plants......3 ft., \$3.50; 5 ft., \$5.00 Retinospora Plumosa Aurea Globe-Shaped.

Taxus Cuspidata. A large handsome bush with numerous spreading branches; foliage deep glossy green above, pale yellowish green beneath. Specimen plants, 1½ to 2 ft., \$4.00



Koster's Blue Spruce.

Thuya Occidentalis. (American Arbor Vitae.) Well known screen and hedge plant. 2 to 3 ft., 60c; 3 to 4 ft., \$1.00; 5 to 6 ft., \$2.00

Thuya Occidentalis Columbia.

Specimen plants......4 ft., \$5.00 Thuya Occidentalis Globosa Nova. Very dwarf and compact, grows naturally into a rounded almost ball-like form. 1½ ft.......\$2.50

Thuya Occidentalis Wareana. A valuable species

Thuya Occidentalis Wareana. A valuable species for cold climates, dense and shapely, medium height. \$2.50 to \$5.00

Thuya Pyramidalis. Very shapely, suitable for tubs. \$2.50 to \$5.00

Thuya Species Rivers. Specimen plants, 4 ft., \$3.00

Thuya Standishii. A pyramidal tree of graceful drooping habit. 3 ft.,................\$3.00

Tsuga Canadensis. (Hemlock Spruce.) A magnificent native tree that grows rapidly, and is very hardy. 2 to 3 ft., \$1.50.

Specimen trees, 2 to 2½ ft., \$2.50; 3 ft., \$3.00

ORNAMENTAL TREES.

Cornus Florida. (Dogwood.) White flowering.

5 to 6 ft., \$1.00 each. 6 to 8 ft., \$1.25 each.

Cornus Florida. Red flowering.

2 to 3 ft., \$1.25 each.

Peach, Clara Meier. Double red......\$1.25 each.

Polymorphum Atropurpureum. (Japanese Maple.)

Leaves deep blood red. \$1.50 to \$5.00 each.

Polymorphum Atropurpureum Dissectum. (Cut
pleaved Purple.) Dark maroon, deeply ser
rated thread-like leaves. \$1.50 to \$5.00 each.

Prunus Triloba. (Double-flowered Plum.)..75c each.

Prunus Pissardi. Purple Leaf Plum.

5 to 6 ft., \$1.00 each.

5 to 6 ft., \$1.00 each.

Salisburia. Maiden Hair or Ginkgo. 8 to 10 ft., \$1.00 each.

SMALL FRUITS, GRAPE VINES, ETC.

Express or Freight at Expense of Purchaser.

BLACKBERRIES.

50c per dozen; \$3.50 per 100.

nt Briton. Large fruit, stems loaded with good sized berries of fine quality; vigorous grower; one of the best.

n. Large berries. One of the most productive. Ancient Briton.

Blower. I

Harvest. Compact dwarf grower, productive; fruit medium size of fine quality. One of the

first to ripen.

do. Large fruit, borne in large clusters and ripen well together, fine quality, good keeper and shipper. Mersereau. Extremely hardy, berries large; extra

and shipper.

Extremely hardy, berries large; extra quality, sweet, rich and melting without core, good keeper and shipper, strong vigorous grower.

Rathbun. A strong erect grower with strong stem, branching freely. Fruit very large, sweet and luscious, without hard core, heavy crop-

and luscious, without hard core, neavy cropper.

Snyder. Medium size sweet and juicy, extremely hardy and very productive.

Taylor, Medium size fruit of fine flavor, extremely hardy and very productive; ripens late.

Ward. A strong vigorous grower, producing fine large fruit of excellent quality, hardy and very productive.

CURRANTS.

The following are the very best sorts, and are

The following are the very best sorts, and are supplied in strong two-year-old plants:

Cherry. Deep red............100 each; \$1.00 doz.

Fay's Prolific. Color rich red; the leading variety for home use.......15c each; \$1.25 doz.

Black Prolific. The favorite sort for preserving.

15c each; \$1.25 doz.

etion. A new red variety which promises to eclipse all other sorts, combining size, color, high quality and productiveness.

White Grape. Best white variety.

15c each; \$1.50 doz.

DEWBERRY.

tia. One of the low-growing, trailing black-berries. It has proved highly satisfactory wherever tried, and many say it is the best of all the blackberry family.

50c per doz.; \$3.00 per 100. Lucretia.

GOOSEBERRIES.

Downing. Large, pale green, and of splendid quality for both cooking and table use.

20c each; \$2.00 doz.

GRAPE VINES.

ALL TWO-YEAR OLD SELECTED STOCK. Black or Purple Grapes.

Campbell's Early. Bunch and berry large, glossy black, sweet and juicy; fine qual-

25c each; \$2.50 doz. *Concord. ord. Large, black grape, hardy and productive; juicy and

sweet.

10c each; \$1.00 doz.

Bunch and berries

very large, skin
black and finest qual-Eaton. ity. 25c

ity.

25c each; \$2.50 doz.

*Ives' Seedling. Dark purple, sweet.

10c each; \$1.00 doz.

Moore's Early. Ripens ten days earlier than Concord; bunch and berry round and large....15c each; \$1.50 doz.

Worden. Larger than Concord in bunch and berry; excellent flavor..........15c each; \$1.50 doz.



KASPBERRIES.

50c per dozen; \$2.50 per 100, except where noted.
Brandywine. Large size, light crimson color, good quality and firm, vigorous and productive.
Columbian. The fruits are cone shaped of dark red, almost purplish color, rich sprightly flavor; unrivalled for canning, making jam, etc.
Cumberland. The largest black cap; a healthy, vigorous grower; very productive.
Cuthbert. Large, firm, deep rich crimson, of excellent quality, tall, strong and vigorous.
Eaton. Hardy and strong grower, berries red, large, handsome, firm and highest quality, solid.
Golden Queen. Berries large, golden yellow, bright and firm, and of fine, rich flavor; vigorous.

10c each; \$1.00 doz.
Gregg. A large black variety, fruit firm.
Haymaker. A purple cap variety, berries large and firm, never crumbles.

firm, never crumbles.
The earliest Red Raspberry; berries round, medium size, light crimson and excellent quality.

Ransas. The hardiest black cap; strong, vigorous.

Loudon. The best red, mid-season berry; fruit large, of a beautiful, rich, dark crimson color.

Ruby. Fruit large, bright red, exceedingly firm, excellent quality, strong grower, early.

STRAWBERRIES.

STRAWBERRIES.

The blossoms of those marked with (P) are destitute of stamens and are termed pistillate, and unless a row of perfect flowering variety is planted at intervals not exceeding about 'a rod, they will produce imperfect fruit and but little of it; but when properly fertilized as a rule they are more prolific than those with perfect flowers.

Dip the plants in water as soon as received, and bury the roots in moist, shady ground till you are ready to set them out. Neglect for an hour or so is often fatal.

25c per dozen; \$1.00 per 100; \$7.50 per 1,000.

Brandywine. A fine, large, late, handsome, productive berry of excellent quality; regular conical form; dark, glossy red.

Bubach's No. 5 (P). Large and uniform size, fine form and color; the leading market sort.

Cardinal (P). This Strawberry surpasses all in size of plant and abundance of runners; fruit stalks tall and robust, bearing fruit well off the ground: color, beautiful cardinal red.

Ciyde. Large, light scarlet color; conical shape; very productive, good quality.

Gandy. One of the best late varieties. Berries large, of fine form and excellent quality.

Gen Mary. Large to very large, sometimes flattened; sweet, rich, delightful.

Haverland (P). Very productive of medium to large, conical berries that are smooth, regular, mildly sub-acid.

Jessie. Berries large, handsome, dark red. The

large, conical berries that are smooth, regular, mildly sub-acid.

Jessie. Berries large, handsome, dark red. The plant is vigorous, healthy, with strongly staminate blooms; a good pollenizer for imperfect-flowering sorts.

Nick Ohmer. A fine, fancy market berry and always superb for the table. A giant in size.

Senator Dunlap. Exceedingly vigorous. Fruit large, regular and attractive in form, deep red to the center. Firm in substance.

Warfield (P). Great beauty, firmness, earliness, productiveness and vigor make this berry most popular.

most popular.

Belt. Berries very large, conical, bright red, of good flavor. The plant is strong, healthy. very fruitful. Season medium to late. Wm. Belt.

FERTILIZERS

PRICES SUBJECT TO MARKET CHANGES.

McCullough's el paso sheep manure. ESPECIALLY VALUABLE FOR LAWNS.

ESPECIALLY VALUABLE FOR LAWNS.

This is a pure, natural manure, and nutritious food for plants. Its effect is immediate. It is the best of all manure for mixing with the soil for green-house plants. It makes the richest, safest and quickest liquid manure. Nothing equals it for use on flower beds or for the vegetable garden. Especially valuable for lawns, contains all the constituents for promoting a quick, luxuriant growth, and a rich green color. Is pulverized by machinery, making it very convenient to use. No faking off required. No seeds of foul weeds in it! No offensive odor! It is clean to handle! Absolutely safe to use in any manner.

sive odor! It is clean to handle! Additionally safe to use in any manner.

Directions—For lawn, use at the rate of from 500 to 600 pounds per acre. For pot plants, mix one part of sheep manure to six parts of soil. For use in the vegetable garden, spread over the surface and dig in. Being soluble it readily makes a safe liquid manure—one pound to five gallons of water per day can be safely used. 2 lbs., 10c; 6 lbs., 25c; 13 lbs., 50c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; per ton, \$30.00.



EXCELSIOR PLANT FOOD.

An odorless preparation, combining in a concentrated and soluble form every element required in plants and ment required in plants and flowers to produce vigorous growth and a profusion of flowers and fruit. Wonderful results are obtained, after one or two applications. It is immediately soluble in the product of the prod water, and available to plant life from the moment of application.

assists moisture, will mature plants from two to three weeks earlier.

Small package making 10 gallons, 20c; by mail, 30c, postpaid. Large package, making 20 gallons, 35c; by mail, 50c, postpaid.

5-pound package making 100 gallons, \$1.75. AMMONIA AND POTASH.

The leading fertilizer, and is especially valuable for plants, potatoes and grain.

	Perce	
ANALYSIS—Nitrogen2	.47 to	3.29
Ammonia3	to	4
Available Phosphoric Acid.6	to	
Potash (K20)2	to	
F 11 OF 11 Pro. FA 1ba @1 OF	. 100	lha

5 lbs., 25c; 25 lbs., 75c; 50 lbs., \$1.25; 100 lbs., \$2.00; 200-lb. bag, \$3.00; half ton, \$13.25; per ton, \$25.50.

PACIFIC NOBSQUE, GENERAL CROP.

For several years we have been handling this fer-tilizer, and the universal verdict from all who use it is "It is the best fertilizer we have ever used." r usea. Percent

\$2.00; 167-1 ton, \$25.00.

SQUARE BRAND.

A Special Trucker's Fertilizer.

Percent 100 lbs., \$2.00; 1000 lbs., \$18.00; per ton, \$35.00.

ACID PHOSPHATE.

(Monarch Brand.)

100 lbs., \$1.00; 1000 lbs., \$9.00; per ton, \$17.50.



Dickey Bug Death Duster. Postage extra. Pure Bone Meal. This finely pulverized ground bone is excellent for rose culture and lawns. It decomposes rapidly and is more quickly effective than the coarser grade. It is excellent for mixing with soil for potting. 2 lbs., 10c; 10 lbs., 45c; 25 lbs., \$1.00; 50 lbs., \$1.50; 100 lbs., \$2.50; 200-lb. bag, \$4.00; per ton, \$35.00.

For lawns, use at the rate of at least 500 lbs.

ner acre

Muriate of Potash. Apply 100 to 150 lbs. per acre, usually with other fertilizers. This must be used with great care as it is very powerful. Excellent for potatoes, corn, grain, etc. Lb., 10c; 25 lbs., \$1.10; 50 lbs., \$2.00; 100 lbs., \$3.50.

Nitrate of Soda. A natural product of the mines of Chili, South America. Contains 16 percent Nitrogen, equal to 20 percent ammonia. Per lb., 10c; 3 lbs., 25c; 10 lbs., 60c; 25 lbs., \$1.25; 50 lbs., \$2.25; 100 lbs., \$4.00.

Ashes—Hard Wood. Drive away insects and improve the texture of the soil; indispensible for all crops requiring potash; very beneficial for garden and field crops, grass lands and lawns. Apply 1 to 2 tons per acre. 100 lbs., \$1.35; barrels, about 200 lbs., \$2.00; 10 barrels, \$17.50.

Land Plaster. If applied as a top dressing for grass or clover crops in the spring, it greatly increases the growth and yield of same; sprinkled in stables, poultry houses and on manure piles it will prevent ammonia from vaporizing thereby greatly increasing the value of farm manure. On account of its economical usefulness and effectiveness it should be liberally used on every farm. 200-lb. hag \$1.30. bag, \$1.30.

with other fertilizers deficient in nitrogen. It Sulphate of Ammonia. only with other fertilizers denoted in mediately. 10c lb.; will stimulate growth almost immediately. 10c lb., 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.50.

Sulphate of Potash. Apply 100 to 150 lbs. per acre, usually with other fertilizers. Valuable for root and grain crops. 10c lb.; 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

Apterite. A scientifically prepared powder for the fumigation of the soil.

To the fruit grower the benefits to be derived from Apterite are enormous. Many of his worst pests hibernate in the soil, beyond the reach of the Winter Spray Fluids.

Among these may be mentioned Wooly Aphis, ireworms, Codling and other Moths and various Wireworms, Codli Flies and Midges.

These can now be destroyed in the soil during the winter and their depredations prevented.

1 lb., 25c; 5 lbs., 75c; 112 lbs., \$6.00.

MOSS, PEAT, ETC.

Moss, Green Sheet. For hanging baskets, etc.
Per bale, 40c; bundle of 5 bales, \$1.50; bag, \$1.50.
Moss, Sphagnum. For packing plants and greynog.
Orchids, etc. Per lb., 10c; per bale, \$2.00.
Peat Jersey. Rotted. Per bu, \$1.25; per bbl., \$2.75.
Potting Soil. This is a mixture specially prepared by us, and such as used at our own green houses. It is suitable for all ordinary plants and bulbs. Peck, 25c; bushel, 75c; bbl., \$1.50.



Death. A first class insecticide. Contains neither Paris Green nor other Arsenical Poisons, is safe and sure. It kills bugs and insects without injury to the plants, especially valuable for Cucumbers, Egg Plants, Melons, Rose Bushes, Currants and Potatoes. Also for house plants. No necessity for "Beware—Poison" signs when Bug Death is used around the premises. It drives ants from lawns and won't injure the grass. Full directions on each package. 1 lb., 15c; 3 lbs., 35c; 5 lbs., 50c: 12 lbs., \$1.00. Bug Death, each package. 1 50c; 12 lbs., \$1.00.

Postage must be added if wanted by mail.

INSECTICIDES AND FUNGICIDES

Arsenate of Lead. The most effective poisonous insecticide for leaf eating insects. It will not scorch, burn nor injure the most delicate foliage, but at the same time, kills all kinds of leaf and fruit-eating insects. It sticks to the foliage to which it is applied throughout the season no matter how frequently rain occurs. 1 lb. jar, 25c; 2 lbs., 40c; 5 lbs., 70c; 10 lbs., \$1.25; 20 lbs., \$2.25; 50 lbs., \$5.00; 10.) lbs., \$9.50; 300 lbs., \$26.00; 600 lbs., \$51.00.

Bordeaux Mixture. (Paste.) A fungicide for curing and preventing black rot. mildew, blight.

ing and preventing black rot, mildew, blight, leaf curl, scab, or other fungoid diseases on fruits and plants, ready for use by simply adding water. 1 lb., 20c; 5 lbs., 50c; 10 lbs., 95c; 20 lbs., \$1.75; 50 lbs., \$3.75; 100 lbs., 95c; \$6.50.

Bordeaux Lead Arsenate Mixture. (Paste.) An insecticide and fungicide combined in one, very effective product. Sticks well to the foliage, will not wash off by ordinary rains, and in this way the sprayer saves the expense in many instances of respraying. 1 lb. jar, 25c; 5 lbs., 75c; 10 lbs., \$1.40; 20 lbs., \$2.65; 40 lbs., \$4.50; 100 lbs., \$4.50; 500 lbs., \$4.750.

Copper Sulphate. For early spraying and making Bordeaux mixture.

Copper Sulphate. For early spraying and making Bordeaux mixture.

Per lb., 10c; 10 lbs., 80c; 100 lbs., \$6.50.

Fir Tree Oil Soap. This article contains no poison, yet is quite effective in destroying Red Spingler, Mealy Bug, Aphis, etc.

1/2-lb. tin, 25c; 2-lb. tins, 75c.

Fish Oil Soap. For destroying insects on plants, these wipes etc. for washing down the bark

trees, vines, etc., for washing down the bark of trees, grape vines, etc. ½-lb., 10c; lb., 15c; 5 lbs., to 50 lbs., 12½c lb.; 50 lbs. or over, 10c lb.

ine. A remedy for mildew, rust and other fungus diseases. Its chief constituent is sulphur, but it is so treated that it is free from the disagreeable features of most sulphur solutions, and is a clean, safe and easily applied fungicide which does not stain the foliage. ½ pt., 35c; pt., 60c; qt., 75c; gal., \$2.00 to 12 pt. 4 non-noisonous nowder for the remember. Fungine.

Dust. A non-poisonous powder for the remedy and control of mildew and rot on grapes, Grape Dust.

edy and control of mildew and rot on grapes, gooseberries, roses, etc.

Per ib., 10c; 5 lbs., 40c; 10 lbs., 70c

Hellebore Powder White. For destruction of Slugs, Worms, Caterpillars, etc., ½ lb., 15c; 1 lb., 25.?

Kerosene Emulsion. One of the best insecticides for all soft bodied sucking insects, feeding openly so as to be within reach of actual contact, such as plant Lice, Flea, Beetles, Aphis, Green Fly, Mealy Bug, also for insects on fruit trees.....1 qt., 40c; gal., \$1.00

Lemon 0il. For all insects and soft scales. One of the best known insecticides, and having a pleasant odor, is highly recommended for house plants. Dilute 33 to 50 parts of water. ½ pt., 25c; pt., 40c; qt., 75c; ½ gal., \$1.25; gal., \$2.00.

½ pt., **25**0 gal., **\$2.00**.

#2 pt., 200; pt., 400, qt., ..., 20 gal., \$2.00.

Lime Sulphur Solution. For Fall, Winter and early Spring spray. Destroy's San Jose Scale, Peach Leaf Curl, Bud Moth, Apple Aphis, Blister Mite, any Scale Insects or Bark Lice. Lime and Sulphur Solution—If not exposed to air will remain in solution a long time; will not clog the spray pumps because it is free from sediment. 1 gallon will make 12 gallons spraying liquid 1 qt., 25c; ½ gal., 30c; 1 gal., 50c; 5 gal., \$2.00; ½ barrel, 25 gal., \$6.00; 1 barrel, 50 gal., \$9.00.

Lawn Silicate. A powder for killing weeds. 5 lbs., 25c; 10 lbs., 50c

\$8.50. Nico-Fume Liquid.

One of the best compounds on the market, contains 40 percent nicotine.

4 lb., 60c; lb., \$2.00; 4 lbs., \$7.00; 8 lbs., \$13.50
een. Used for destroying Green and Black
Fly, Thrip, Mealy Bug, Red Spider, etc.

\$1.50 per pint. Nikoteen.

Paris Green. Warranted strictly pure.

1/4 lb., 10c; 1 lb., 30c; 5 lbs., \$1.25

Persian Insect Powder. For Worms, Flies, Aphis, and almost all kinds of insects.

1/4 lb., 15c; 1 lb., 50c

Slug Shot. A non-poisonous powder and a very popular insecticide. Very effectual in destroying Caterpillars, Currant, Gooseberry and Cabbage Worms, Potato, Melon, Squash and Cucumber Bugs, Rose Slugs, Rose Lice, etc. Per ib., 10c; 2 lbs., 15c; 5 lbs., 35c; 10 lbs., 60c.

and Cucumoer etc. Per ib., 10c; 2 lbs., 10c, 1bs., 60c.

Sulfatine. A liquid weed killer.

40c qt.; \$1.00 per gallon.

Sulphur, Powdered. Used to prevent and cure mildew on plants. 1 lb., 10c; 2 lbs., 15c; 5 lbs., 35c; 10 lbs., 60c.

Sulpho-Tobacco Soap. Destroys Cabbage, Squash and Potato Bugs, Currant Worms, Lice, Green Fly, Mealy Bug, Red Spider, etc.

3-oz. cake, 10c. Mailed, postpaid, 13c.

3-oz. cake, 20c. Mailed, postpaid, 28c.

Tobacco Dust. A sure remedy for Green Fly, Aphis, Fleas, Beetles, etc. Preventative for insects

Tobacco Dust. A sure remedy for Green Fly, Aphis, Fleas, Beetles, etc. Preventative for insects in the ground and around the roots.

1 lb., 10c; 5 lbs., 25c; 100 lbs., \$3.00

Tobacco Dust for Fumigating. 10c lb.; 3 lbs., 25c; 10 ibs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.00.

Tobacco Dust and Sulphur. Will prevent and cure mildew on grape vines and rose bushes. It will destroy the Green and Black Fly. Grubs, Cutworms, Lice, Mealy Bug and Red Spider.

Per lb., 10c; 5 lbs., 30c; 10 lbs., 50c

Tobacco Extract, Black Leaf. A perfectly pure, highly concentrated extract of Tobacco, always uniform in strength of nicotine poison. Destroys Green Fly, Mealy Bug, Thrip and Red Spider.

Pt., 25c; qt., 40c; gal., \$1.25; 5 gal., \$5.00

Tobacco Stems. Used for fumigating plants to kill

Destroys Green Fly, Mealy Bug, Thrip and Red Spider.
Pt. 25c; qt., 40c; gal., \$1.25; 5 gal., \$5.00

Tobacco Stems. Used for fumigating plants to kill insects. Invaluable as a mulch for rose beds, lettuce beds, etc., where insects frequently do much injury to roots and foliage.

Per lb., 5c; bale of about 150 lbs., \$1.75

Tree Tanglefoot. For protecting trees against climbing insect pests in a simple, economical and effective way; put a band of tree tanglefoot, from 3 to 5 inches wide completely around the tree. A perfect safeguard against Gypsy. Brown-Tail and Tussock Moth. Canker Worms and Ants, and other creeping insects. 1 lb., 30c; 3 lbs., 85c; 10 lbs., \$2.65; 2.0 lbs., \$4.80.

Weed Killer, Target Brand. A highly concentrated solution which dilutes one part to 50 parts of water. It is effective within 12 hours after application and one application will keep paths and roadways free from weeds for an entire season. 1 ot., 40c; ½ gal., 65c; 1 gal., \$1.00; 5 gal., \$4.00; 10 gal., \$7.50.

SCALE DESTROYER, TARGET BRAND

It has the advantage of not alone destroying the scale but it cleans off the bark of the tree thoroughly; increases to a large extent the foliage and general vitality of the same. One Gallon Target Brand Scale Destroyer makes Twenty Gallons Dilution ready to apply.

1 qt., 35c; ½ gal., 65c; 1gal., \$1.00; 5 gal., \$3.75; 25 gal., \$13.75; 50 gal., \$25.00.

COOPER'S TREE SPRAY FLUIDS

VI FLUID is a Winter and Spring Spray only while the trees are dormant. It kills the eggs of the insects and the spores of fungi, mosses and lichens with which it comes in contact. It removes loose bark, lichens and mosses from the trees of every description, invigorates and cleanses the trees, leaving the trunks and branches clean and healthy......1 qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00. V2 Fluid is for a Summer spray only, when the trees are in bud and leaf. It kills instantly Aphis, Psylla, and scale insects. Does not injure leaf or blossom.

Qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00.

V3 Fluid. For leaf eating insects—especially valuable for protecting and invigorating the growth of all vegetables as it destroys all insect life......Qt., \$1.00; ½ gal., \$1.75; 1 gal., \$3.00; 5 gal., \$14.00.

HOW AND WHEN TO SPRAY

PLANT	1st Application	2d Application	3d Application *	4th Application	5th Application .
Apple—(Scab, codling, bud moth, canker worm, tent cater- pillar, aphis.)	Spray before buds start, using copper sulphate solution. For San Jose Scale, see bottom of page.	have formed, but be- fore they open, spray	the blossoms fall, Bor- deaux and an arsen-	Bordeaux and an ar-	Spray fall and win- ter varieties with Bor- deaux and an arsen- ical about the first of August.
Cabbage—(Worms aphis and flea beetle.)	When worms are first seen, an arsenical. For flea beetles, plaster and turpentine, or tobacco dust.	repeat if plants are not heading.	After heads form use hot water, pyrethrum (or saltpeter, a teaspoonful to a gallon of water).	appear. For aphis use kerosene and	
Cherry—(Rot, aphis, cure lio, slug and leaf blight.)	Before the buds open, spray with cop- per sulphate.*	When the fruit has set, spray with Bordeaux mixture and an arsenical.*	slugs or signs of rot	10-14 days later, weak copper sulphate solution if necessary, or soda Bordeaux.	For leaf-blight use Bordeaux mixture af- ter the crop has been gathered.
Currant—(Mildew worms, borers and leaf blight.)	When pruning, cut all stems that contain borers. As soon as worms are found on lower and inner leaves spray with an arsen- ical.*	repeat, adding Bor- deaux for mildew and	If worms still trouble, pyrethrum or hellebore.	After fruit is picked, Bordeaux for leaf spot.	
Gooseberry — (Mildew, leaf blight and worms.)	As leaves open, Bor- deaux and an arsen- ical.*	In ten to fourteen days repeat with both.	10-14 days later use sulphide of potassium on English varieties.	10-14 days later, repeat.	If mildew persists after crop is gathered, repeat.
Grape—Rot, Mildew anthracnose flea beetle and leaf-hop- per.)	Before buds burst, spray with copper sulphate solution. Add an arsenical for flea beetles.	When first leaves are half grown, Bor- deaux and an arsen- ical. For leaf-hop- pers, use kerosene emulsion.	When fruit is set, use Bordeaux and an arsenical.	If necessary, use Bordeaux at intervals of 10 to 14 days.	For powdery mildew, use sulphide of potassium.
Peach—, Apricot— (Leaf curl, curculio, mildew and rot.)	Before April 1 spray with copper sulphate solution.*	When fruit has set, use Bordeaux mixture and an arsenical, one-half strength.	10-14 days later repeat.	If rot reappears, use weak copper sulphate solution.	Repeat if necessary.
Pear—(Leaf blight, scab, slug and cod- ling moth.)	Before buds open copper sulphate solu- tion.*	When the blossoms have formed, but be- fore they open, Bor- deaux and an arsen- ical.	Within a week after the blossoms fall, Bor- deaux and an arsen- ical.*	Repeat in 10 or 12 days if necessary.	Use weak copper sulphate solution or Soda Bordeaux.
Plum—(Curculio, rot, shot-hole fungus, black-knot.)	Cut and burn black knots whenever found. Before buds open, spray with cop- per sulphate solu- tion.*	As soon as the blossoms have fallen, use Bordeaux mixture and an arsenical.	10-14 days later repeat.	Repeat if necessary at intervals of 15-20 days, or use soda Bor- deaux.*	to color, use weak
Potato—(Blight, beetles and scab.)	Soak seed for scab, in corrosive sublimate (two ounces to sixteen gallons of water), for ninety minutes.	When beetles or their larvae appear, an arsenical and lime water, or Bordeaux mixture.	Repeat whenever necessary.	For leaf blight use Bordeaux, beginning when the plants are eight inches high.	or ten days if neces-
Quince — (Leaf and fruit spots, slug.)	Before the buds open, spray with cop- per sulphate.*	When the fruit has set, Bordeaux and an arsenical.	10-12 days later repeat.	10-20 days later, Bordeaux.	
thracnose, rust, cricket, slug and galls.)	diseased with an-	When new canes are one foot high, Bor- deaux and an arsen- ical.		After crop is gathered, remove old canes, thin new ones and spray with Bordeaux if necessary	stool affected should
sects.)	Just before the blossoms open, Bordeaux and an arsenical.	mixture.	As soon as berries are harvested, Bordeaux (if to be kept longer).	first and third treat- ments given to bear-	the bed, if leaf rollers
Tomato — (Rot and blight.)	If either disease appears, Bordeaux.	Repeat if the disease continues.	Repeat if necessary.	ing plants.)	

*For the San Jose and other Scales upon apple and other trees, use the sulphur and lime mixture, or Target Brand Scale Destroyer. These are the best remedies for all scale insects, peach leaf-curl, aphides on fruit trees, twig borers, pear blister mite, etc.

Den't fail to spray every season. It is impossible to determine in advance whether or not the plant or tree will be attacked. Proper spraying is never injurious.

Don't spray once in the season and expect to see much result.

Spray repeatedly and you will be sure to appreciate the result when you gather the crop.

Don't wait until the fungi have attacked plant or tree; the fungicides are merely preventives, and should be used early in the spring. After the disease has developed, it may be too late to save the tree.

Don't spray on the top of the leaves only; spray the under sides where the pests hide, and be particular to keep your fluid thoroughly agitated.

SPRAYING PUMPS AND APPLIANCES

Spraying is of such importance that the Experiment Stations all over this country have given much of their attention to it, and their findings have been of incalculable value. Diseases and insects can no longer exist if the proper insecticide is applied through the medium of an up-to-date spray apparatus.

PARAGON SPRAYERS

These Sprayers are strongly constructed and can be easily operated by one man.

They can be brought in close proximity to the work, thereby eliminating the use of a long expensive hose. Our patented self cleaning strainer prevents the necessity of first straining the liquid to be sprayed. The agitator also keeps the liquid thoroughly stirred.

The spray nozzle has only a 1-32-inch outlet and spreads the liquid well, thereby covering a large surface with a small amount of liquid, making it a very economical sprayer.

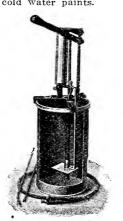
All parts of the machine are made of the best material obtainable. The reservoir is made of heavy galvanized iron. All essential fittings and valves are made of brass, making it strong and durable. The body of pump is cast iron, well ribbed to prevent breakage. The screen is of heavy perforated brass and will last many years.

The pump frame can easily be removed from tank when it needs cleaning and by running water through machine after using, the entire machinery can be easily and thoroughly cleaned.

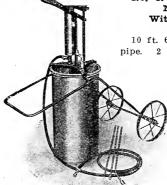
Suitable for spraying insecticides and fungicides on trees, shrubs and vines, as well as the application of whitewash and cold water paints.







1. 6 Gal. Price \$10.00. Equipment feet 6-ply Hose feet Spray Pipe. Hose. Nozzles.



No. 3. Capacity, 12 Gallons. Net Price, \$15.00 Without Truck, \$13.00 Equipment

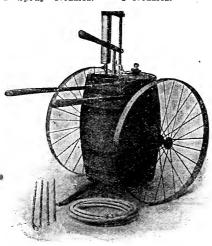
10 ft. 6-ply hose. 71/2 ft. spray pipe. 2 spray nozzles.

> Mounted on strong steel truck and can easily be wheeled to any desired place. Truck is easily detached when desired.

The above cut represents our most popular and best selling sprayer. Thousands

are now in use and giving best of satisfaction.

Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for \$4.00 additional.



No. Capacity, 28 Gal. Net Price, \$22.00

Net

Not mounted wheels, \$17.00 on

Equipment 20 ft. 6-ply hose. 10 ft. spray pipe. 2 spraying nozzles.

This is very convenisprayer, mounted two strong 30 in. wheels.

This sprayer especially despecially despeci buildings, also suitable for spraying



No. 5. Capacity, 50 Gal. Net Price,

Equipment 25 ft. 6-ply spray 10 ft. hose. spray pipe. One 3-way spray noz-One single

\$25.00

spray nozzle. This sprayer has solid cast brass pump and large air chamber. It is positively the very best hand power sprayer made for tree spraying.

No. 6, Sprayer. Not Illustrated. Capacity, 50 Gallons. Price, \$33.00 Same Design as No. 5. Equipment

Two 25 ft. lengths 6-ply spray hose. Two 10 ft. spray pipes. Two 2-way spray nozzles. One "Y" Fitting for 2 lines of hose.



BAMBOO BRASS LINED SPRAY POLES.

Spraying material can be furnished by us; also 12 ft. lengths.....net price, formulas for mixing whitewash. 10 ft. lengths.....net price,

SPRAYING PUMPS AND APPLIANCES—continued.

Auto Compressed Air Spray. Can be suspended from the shoulder allowing the free use of the arms. A few strokes of plunger in air chamber will compress enough air to discharge the entire contents and make a continuous spray for nine minutes. Also used for spraying disinfectants. A practical machine for potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes useful for spraying tall trees.

potatoes, tobacco, small fruits, vineyards, poultry houses, green houses, etc. Extension pipes useful for spraying tall trees.

Brass Tanks, with Stop Cock. \$6.75

Galvanized Steel Tank, with Stop Cock Extension Pipes, 2-foot lengths, Brass, each 4.50

Extension Pipes, 2-foot lengths, Brass, each 4.60

Myer's O. K. Brass Spray Pump. Can be adjusted by clamps to fit any barrel. The cylinder is made of a solid brass tube with a closed end which passes through a circular hemp packing, which adapts it for pumping hot, cold or any other kind of mixture. The packing gland is adjusted by means of two heavy bolts with which all wear can readily be taken up. The valves can easily be taken out and repaired. The air chamber is made of 2½-inch steel tube. The handle is wrought steel with adjustable stroke, so as to enable the operator to get up a pressure of 200 pounds or more if necessary. It is fitted for one or two leads of discharge hose.

Pump only, without hose or connections. \$10.75

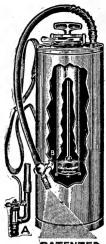
Complete with one lead of 15 feet discharge hose and Graduating Vermorel Nozzle. 14.00

Complete with one lead of 15 feet discharge hose and Graduating Vermorel Nozzle

Complete with two leads of 15 feet each discharge hose and Graduating Vermorel Nozzles

Myer's Improved Brass Barrel Spray Pump. The pump sets inside the barrel. The working parts are entirely submerged, thereby avoiding all possibility of losing priming. Has bronze ball valves and brass seats; the plunger is brass, fitted with hemp packing. The cylinder and discharge pipe are all brass. The air chamber is 30 inches in length, enabling the pump to throw a uniform and constant spray. With 15 feet of ½-inch discharge hose and vermorel graduating nozzle

7.00



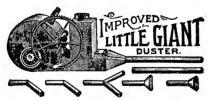


 Four-foot Fipe Extension
 \$0.25

 Bordeaux Nozzle
 75

 Graduating Vermorel Nozzle
 75

 Meyer's Power Nozzle
 75
 .75 .40 .40



Continuous Spray. Made of brass. Each \$1.00; three for \$2.75 Champion Dry Powder Duster. Adjustable to any width of row.

Dusts two rows at a time. Weighs about 6 lbs. Comprising 4 tubes, 6 nozzles, 2 straps and oil can. The reservoir holds over a quart of powder......Each \$8.00

Powder Gun. The simplest tool for applying poison to growing crops. No poison is left about the fields to kill stock. It requires no base of supplies; all you need carry is a can of dry insecticide and the gun. Without stooping—the elbow does it—it applies any powdered poison on any plant in any desired quantity, any time of the day. The elbow may be detached if desired. The bellows sides are painted a bright vermilion, and the handles finished bright. The leather is a fine russet. We also furnish a spreader for distributing the blast Each \$1.00; three for \$2.70. Acme Powder Gun.



Dry Powder Sprayer. Easy to operate, strong and durable. Made of heavy tin. Can holds one quart.

Each 65c; three for \$1.00; three for \$2.70

Each 65c; three for \$1.80

Dickey Bug Death Duster. Practical and effective; for applying Bug Death dry to garden vegetables

Each \$22.00

FLOWER POTS AND SAUCERS.

Our Flower Pots and Saucers are standard make, of extra fine finish, and bear shipping well. No charge for packing



FLOWER POTS.

	per	Ī		per		
each	doz. 100	' each	doz.	100	each	doz.
2-inch2c	15c \$0 80	5-inch 5c	\$0 40	\$3 00 10-inc	ch	8 2 50
2½"2c	20c 1 00	6 " 6c	60	4 50 12 "		4 50
3 "3c	25c 1 25	7 " 8c	90	7 00 14 *	90	9 50
$3\frac{1}{2}$ "3c	25c 1 50	8 "12c	1 25	9 00 16 '	1 50	17 00
4 "5c	30c 2 00	9 "15c	1 75	14 00		

FLOWER POT SAUCERS.

each 4-inch	doz. 25c 30c 40c	per 100 \$1 80 2 25 3 00		doz. 50c 70c 90c	per 100 \$3 75 5 50 7 00	10-inch	4 7 -	per doz. \$1 00 1 50
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AZALEA FLOWER POTS.

These are the same style as our standard Flower Pots, but not so deep. Suitable for Azaleas, Bulbs, Ferns, Spireas, etc.

	each doz.	e ach	doz•
5-inch 6c 60c 7-inch	10c \$1 00 1	10-inch 25c	\$2 50
6 " 8c 70c 8 "	12c 1 25 1	12 '' 40c	4 50

ROUND SEED PANS.

These are the same style as our standard Pots, but not so deep, and are suitable for Cacti, Begonias, Tulips, etc.

	each	doz.	each doz.	each doz.
5-inch	5с 6с	50c 65c		-inch

FERN PANS.

These Pans are especially adapted for linings to Porcelain and Silver Fern Pans.

	each	doz.	each	doz.		each	doz.
5 ½-inch			10c 12c	\$1 00 9 1 30 10	9-inch		\$1 60 2 00

FIBROTTA SAUCERS.

Made of Indurated Fibre; no moisture goes through to injure table, floor or carpet, light and not easily broken, far cheaper in the end and better every way than earthen ware.

4-inch ... Each, 11c Doz., \$1 30 | 10-inch ... Each, 18c

5 " 12c " 145 | 12 " " 20c 1 45 1 50 1 65 12 14 16 $\frac{2}{3} \frac{40}{20}$ 13c 27c 47c 5 50 6 60 "



Fibrotta Saucers.



FIBROTTA ROLLING STANDS.

For heavy plants and Palms, will not soak or rust. Casters have ball bearings and have hardwood rollers. Rolling stands all have heavy deep saucers and will carry all the weight usually put in large pots for Palms, Rubber Plants, etc.

		douding	put in me		r cumo, renout	ci i ianto
inches	casters	each		inches	casters	each
12	4	55c		- 18	4	\$0 90
14	4	65c		- 20	- 4	1 10
16	4	800	t	22	4	1 40

Florist Vases for Displaying Cut Flowers.

Indurated Fibre Florists' Vases for cut flower displays and storage purposes cannot be excelled for

richness, beauty and economy.

We have always a large stock of our regular plain finish—a rich mahogany color. We can ship green enameled Vases at short notice.

Order by	Diameter	Doorth	Plain	Brown	Enameled Green			
No. only	inches inside	Depth inches inside	Each.	Per dozen.	Each.	Per dozen.		
0	8	13	\$0 65	\$7 40	\$0 65	\$7 80		
2	3 ½ 4 ½	9	55 50	6 40 5 50	60 55	6 90 6 20		
3 4	4 3	6	40 30	4 60 3 60	50 40	5 40 4 30		
00 01	9 .	4 ½ 22 20	$\begin{array}{cccc} 2 & 35 \\ 1 & 25 \end{array}$	28 00 14 40	2 50 1 50	30 00 18 00		
11 22	51/2	18 15	65 55	7 40 6 40	65 60	7 80 6 90		
33	4	12	50	5 50	55	6 20		
44 000	9	29	3 00	4 60 33 00	50 3 25	5 40		



AMERICAN PLANT TUBS.



American Plant Tub.

An excellent new tub, cheap, neat and durable.	Made from % inch Cypress, with iron hand
es, 3 iron hoops and 2 coats of green paint.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

No. 1.	$11\frac{1}{2}$	inches	diameter,	111/2	inches	high	1)
No. 2.	$13\frac{1}{2}$	"	**	11 1/4	**	"	1 25	,
No. 3.	14 3/4	"	**	14	**	**	1 65	,
No. 4.	16	••	**	15	**	••	2 00)
No. 5.	19	**	**	18	**	"	3 00)
No. 6.	22	**	**	$19\frac{1}{2}$	**	**	4 00)
No. 7.	25	**	**	22	**	**	5 00	,
No. 8.	26	**	**	$23\frac{3}{4}$	**			,

CEDAR PLANT TUBS.

Made of seasoned selected Virginia White Cedar, bound with flat steel hoops at bottom, and galvanized wire hoops in middle and at top. el. No handles

Pair	nted green, inside and out, and top edge finished with round be	ve.
	10 inches diameter 9 inches high	5
No. 7.	12 inches diameter 11 inches high	5
No. 9.	14 inches diameter 13 inches high 95	5
No. 11.	16 inches diameter 15 inches high 1 18	5
No. 2.	Pail Size. 10¾ inches diameter 8¾ inches high 30)



Mission Plant Boxes.

MISSION PLANT BOXES.

The best plant boxes in the market for large Palms, Boxwoods, Bay Trees and large shrubs or trees. Suitable for either out-door or indoor use; attractive in design, strong and durable. Bottoms and insides are painted with waterproof paint. Outside painted Mission Brown. Made of Cypress.

14x14 inches, \$2.75,

18x18 inches, \$3.50.

22x22 inches, \$4.50

FIBROTTA PLANT TUBS.

Plant Tubs of Indurated Fibre Ware are useful in Parlors, Corridors, Hotel Lobbies etc. Drainage holes in the bottom prevent earth souring and afford perfect ventilation Plants kept in these tubs will flourish as readily asgrown out of doors. They are furnished

Plain Brown Enam. Green.

Plants kept in these tubs will flourish as readily assistant of in the plain brown and also enameled green.

Their glossy beauty remains—simply wash them off in clear water.
Plain Brown. Enam. Green

10 in, Pot and Saucer...\$0 60 \$0 90 | 14 in. Pot and Saucer...\$1 45

12 in, Pot and Saucer... 70 1 10 | 18 in, Pot and Saucer... 3 75

ASH SIFTER--"HUSTLER"

The sifter is made of galvanized iron with heavy galvanized wire cylinder sieve, and is made in two sizes.



Hills Champion Dryer.

HILLS "CHAMPION" DRYER FOR THE LAWN.

The Reel is made of best material throughout. It is self-fastening and locks to post when in use, and being made separate, can be easily removed when not in use. The post sets in a socket in the ground and can also be removed, thus leaving no obstruction at all in lawn between wash days. All castings of best refined malleable iron and galvanized. They are fitted with either wood post painted out tool their next columnized. or steel tubing post galvanized.

No.	1-4 arms,	6 feet long,	100 feet line, wood post\$6	00
No.	3-5 arms,	7 feet long,	150 feet line, wood post 8	00
Nο	3-5 arms	7 feet long	150 feet line, steel post 9	50

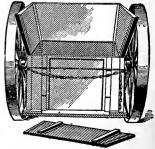




THE BUTLER STEEL HAND CART.

Of unlimited usefulness about the lawn, garden, orchard, stable, etc.; built low down, it is easily loaded and unloaded with barrels, cans, baskets, stones, etc. The detachable box is for vegetables, leaves, fruit, litter, etc. The cart turns clear over for dumping load if desired. Wheels 36 inches high; from out to out of hubs, 42 in. Platform 28 x 32 in. Boxboards 15 in. high. Capacity 6 cubic feet. Flaring Hopper 12 in. above box makes capacity 11 bushels for leaves, litter, etc.

No. 1—Plain, (without box) steel wheels... . 1 1/4 in. Tires. \$10 00 No. 2—With detachable box, steel wheels.
No. 3—With Flaring Hopper sides, steel wheels. 10 00 14 50



HORTICULTURAL TOOLS AND SUNDRIES.

HOR HOULI CICAL TO
BARROWS GARDEN, No. 2, small\$3 25
" No. 3, medium 3 50 " No. 4, large 4 00
" No. 4, large
BASKETS, WIRE HANGING. 8 inch 12c, 10 inch, 15c;
12 inch 20c; 14 inch, 25c; 16 inch, 30c; 18 inch, 40c;
20 inch, 50c; 22 inch, 75c; 24 inch, \$1.00.
BELLOWS ACME. Is well made, with a solid hardwood head block, hardwood handles, best leather for the bellows, an
over allow is furnished to tilt the furnal for getting under
extra elbow is furnished to tilt the funnel for getting under the leaves of plants and shrubs, \$1.00 each, 3 for \$2.70. BELLOWS, WOODASON'S. Single cone—small
BELLOWS, WOODASON'S. Single cone—small\$1 00
" Single cone—large 2 00
"Sulphur
BRACKET FLOWER POTS. Made of steel, strong and durable.
Flower Pots and Saucers are held securely in place by the
spring clasp
2A. For 6 inch Flower Pots
3A. For 7 inch Flower Pots
CULTIVATOR, NORCRUSS HAND GARDEN. The Prongs,
at ends. The Socret Frame and Clamping Bar are made
of toughest malleable. Handle best grade of White Ash.
are square spring steel bent Corner wise, with forged shovels at ends. The Socket Frame and Clamping Bar are made of toughest malleable. Handle best grade of White Ash. 4 feet long
CUTTER, FODDER, TONY. 2 knives can be regulated to cut
in lengths from ¼ to 1½ in. Capacity 75 to 100 bushels of
Cet may per nour
CANES. 7 to 9 feet long for plant stakes, per 100 75
DANDELION EXTERMINATOR, LIGHTNING
The only quick, sure and easy way to rid your lawn of Dandelions and keep it free
The exterminator is charged with gas- oline or kerozene and in operation cuts the weed and deposits a few drops of the liquid
weed and deposits a few drops of the liquid
on the root at the same time. Weeds once properly treated with the exterminator, never grows again, the root being eaten up or rotted by the liquid in a few hours, while if cut with a knife in the ordinary way and
never grows again, the root being eaten up
or rotted by the liquid in a few hours, while
if cut with a knife in the ordinary way and
not treated, its growth is stimulated, and it grows stronger than ever\$2 06
DIBBLES. Iron, for transplanting plants, 50c
EDGING KNIFE. For cutting edges of walks and beds
FORKS, DIGGING OR SPADING 1 00
" HAY. 6 foot handle, 3-tine 60 MANURE. Cast steel, oval. 5-
Wintone. Cast steel, oval. o-
" Cast steel, oval, 5-
tine, extra neavy 1 23
" Long Handle
" "Imported; small size
(Hand Weeding Forks, by mail, 10c each extra.)
FRUIT PICKERS. Made of galvanized steel wire; attaches to
pole of any length; price, without pole
FUMIGATOR, PERFECTION. Made with
water tank, which prevents over heating;
the vapor assists in the destruction of insect; No. 1—Capacity, 8 quarts\$3 00
No 2— " 16 " 3 75
No. 3— " 24 " 4 50
67 1///// 1885 188
GARDEN REELS. Iron, painted 75
" LINES. About 250 feet 75
GLASS CUTTERS, ECLIPSE. The best
cheap cutter on the market. For all around
usefulness we prefer it to a diamond.

15c each; \$1.50 doz.

GLAZING POINTS—PEERLESS. Will stop your glass from sliding, made of galvanized steel wire. No rights or lefts; can be used on either side.



For small single-thick glass.
For large single-thick glass. No. 2—For la No. 2½—For Per 1,000, 60c. By mail, 75c PINCERS. For driving the points, 50c. By mail.

GLAZING POINTS, SEIBERT'S

ZINC. Are positively the best; last forever; a sure preventative of glass slipping. Effective on large or small glass; easy to drive easy to extract....40c per lb. By mail, 16c per lb. extra.)



60c

GRASS HOOKS. American plain back	0
" English, riveted back 4	0
GUNS, INSECT POWDER. CYCLONE	0
" " JUMBO 20	0
HOES. ACME WEEDING AND CULTIVATING. Double	_
prong 56 ENGLISH SCUFFLE OR PUSH, imported 6 in 1	
" ENGLISH SCUFFLE OR PUSH, imported 6 in 4	
STANDARD SUCKET GARDEN	
EADIES LIGHT GARDEN	
ONION. One end square; opposite end 1 prong 2	
UNION. One end square; opposite end 2 prongs 3	
" GRUBBING. With handle 6	
" SANDUSKY OR GERMAN 4	
" WEEDING. With 4 tooth rake 4	
" WEEDING. With 6 tooth rake 56	
KNIVES—PRUNING	
" BUDDING 1 00 to 1 7	
ASPARAGUS. American	0
LABELS. For pots, painted.	
4x 5%-inch, per 100, 15c; per 1000\$1 0	0
5x 5/8-inch, per 100, 15c; per 1000 1 1	
6x 5%-inch, per 100, 20c; per 1000 1 2	5
8x ¾-inch, per 100, 30c; per 1000	
10x ¾-inch, per 100, 40c; per 1000	0
12x1 1/8-inch, per 100, 70c; per 1000	
LABELS. Tree notched, copper wired, per 100, 20c; per 1000 \$1.5	0
LAWN FENCE, UNION. Has the neatness, strength and dur	-
ability of wrought iron fence and only costs about one-fourt	
as much. It fits uneven ground and will follow an incline a	s
well as a level surface. It does not obstruct the view.	
37 in. high, 8c per foot; \$7.00 per 100 feet.	
LAMP DEFIANCE—FUMIGATING. (For use in Greenhouses)	
It burns kerosene. It is made of heavy tin throughout. Th	e

oil fount is drawn in one piece so it cannot leak. The cup that holds the Nicoticide (or similar preparation) is also drawn in one piece and cannot leak. No glass about the lamp to be broken. Used by prominent Market Gardeners all over the Country. 50 cents each; \$5.00 per dozen.



MASTICA. For glazing green houses. The use of Mastica avoids the necessity of repeatedly reglazing the house, saving much time and expense. With Mastica can bed in or use outside, with a machine. Broken glass can be easily removed and replaced by new without the breakage of other glass, which usually occurs with hard putty. One gallon will cover about 300 running occurs with hard putty. One gallon will cover about 300 running feet (one side).

MASTICA GLAZING MACHINE. see cut...... 1 25

Mastica Machine.

MATS, HOT-BED STRONG BURLAP. Indestructible, cheap and warm. These are made of strong Burlap, warmly lined with waste wool and cotton, which is quilted to hold in posi-tion. Warmer than straw, and more easily handled. Do not retain moisture, freeze, rot, mildew, or harbor vermin, as straw does.

MATS, BURLAP. 76x76 inches. Price, \$1.50 each.

MATS, WATER-PROOF DUCK. 76x76 inches.... Price, \$1.85 each.

MATTOCK, LONG CUTTER. With handle.....\$1 00

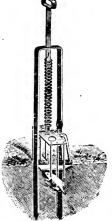
MATTOCK, CRONK'S GARDEN.

MOLE TRAP-REDDICK. The best trap on the market. No mole can pass under this trap and live....75c

OIL, LAWN MOWER. This is a handy can filled with fine oil, manufa-tured expressly for lawn mowers, bicycles, etc.....per can 15c

PLIERS WIRE. For cutting wire..40c POST HOLE DIGGERS, HERCULES

POTATO HOOKS. 4 tine.....60c



HORTICULTURAL TOOLS AND SUNDRIES--Continued.

PLANT BED CLOTH. A cheap substitute for glass, answering many uses equally well. Light and easily shipped. It is of stout, tarred muslin that sheds water, protects against weather,



PLANT BED GLOTH—LIGHT GRADE. rer yard....6c

" " — MEDJUM GRADE. per yard....10c

" " — HEAVY GRADE. per yard....14c

Write for special prices on large lots.

PRUNERS—LITTLE GIANT TREE. To use on a pole...\$1 00

" — WATERS' TREE. With pole, 4 ft., 60c; 6 ft., 70c;

8 ft., 80c; 10 ft., 90c; 12 ft., \$1.00.

Extra knives 25c; by mail 30c



The best Pruning Shears; quality unsurpassed. The celebrated Draw Cut. Is hand forged from the best quality of shear steel. This shear has a slot in blade whereby we get a sliding cut, and the shank of the blade is so constructed as to have a hinge movement, enabling the operator to get a powerful leverage, and to but a 2 inch black with convergence. and to cut a 2 inch limb with comparative ease.

No 1. \$2.25.

No. 2, \$1.75.

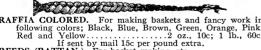
No 1, \$2.25. PRUNING SHEARS, TIP TOP ...\$0 75

PRUNING SHEARS, HAND.\$0 50

German, 8½ inch... French, 8 inch.... . 1 25 . 2 00 Wiss, heavy, extra fine quality, 9 inch..... PUTTY-TWEMLOW'S LIQUID GLAZING. For bedding glass in sash or for filling cracks or seams in roof joints or frames of greenhouses or hotbeds. It makes a solid bed, impervious to moist-

ure and holds glass in its place, and will stop any crevice or fault. It is applied with machine, bulb or brush. One gal-lon will cover about 600 running feet (one side.) Gallon.....\$1 50 PUTTY BULB. A useful tool for applying liquid putty and glazing greenhouses.

\$1.00. By mail.....\$1 10 The best tying material for plants, also used for making hats, baskets. Per lb., 25c; 5 lbs., for \$1.00. If sent by mail 15c per lb. extra.



SCOLLAFT

Daisy and Dandelion flowers \$2 AUTOMATIC SELF-CLEANING. LAWN. Made AUTOMATIC SELF-GLEANING. LAWN. 64.
of best hickory; 26 teeth.
OLE OLSEN. Made of best hickory.
LAWN QUEEN. WIRE. 24 teeth.
LAWN KING. WOODEN. 22 teeth.
WOODEN LAWN. 20 teeth.
WOODEN HAY.

wers. Small size, buc; range success. Made SASH HOT-BED UNGLAZED. Made clear cypress lumber, from strictly clear cypress lumber, and warranted perfect. White lead used on the tendons, and Iron Dowell Pins at the corners. No. 1—3x6 ft., 3 rows, 10 inch glass each....\$1 55 doz......17 00 No. 2—4x6 ft. 5 rows 8-inch glass, each....\$2 10 doz \$23 00 each.....\$2 10 doz \$25 00

SASH HOT-BED GLAZED, 3x6ft.,\$3.10

KYTHES—AMERICAN\$0 90

Weed or Brush 90

ENGLISH LAWN, 30 to 36 inches. \$1.25 to 1.50

SNATHE. PEERLESS 75

STONES. TALACRE
English round. 15 English round 15 STONES. Flat 5c; round 10



SEED SOWER—CAHOON. The difficulty in sowing is entirely overcome by the use of the Cahoon Broadcast Seed Sower, which can be handled with ease by an entirely inexperienced person and will sow much more evenly than can be sown by

cap... " Large, for sampling Orchard Grass. Blue Grass, Coffee, etc...-GARDEN OR HEDGE. With notch English. 1 75 SHEARS-8-in..... 9-in..... Short handle 10-in.... GRASS EDGING OR BORDER. For trimming overhanging grass around edges or walks, 10-in.

-GRASS. For trimming grass on edges and around flower beds.

"Imported. English. The best manufactured.... 3 00 SHEARS-30 75 00 SHOVELS-STEEL. 20 SPADES—Steel polished...... 1 00



Scollay Sprinkler.

NURSERY. Steel extra heavy strapped..... 1 50 SPRINKLER, RUBBER-SCOLLAY'S.

Indispensable for floral work and window gardening.

Large size \$1.00. By mail \$1.10. Medium size, 75c. By mail, 82c. Small size, 50c. By mail, 55c.

THISTLE OR DOCK CUTTERS. Narrow blade, with handle for removing thistles or weeds from lawns; with foot rest..50c

TINFOIL—FLORIST'S FOIL. Strictly first-class. Will run more sheets to the pound than any other make. . Per lb. 15c

HORTICULTURAL TOOLS AND SUNDRIES-Continued.

FROWELS—ENGLISH. The best trowel in the world. It is of one solid piece of steel and will outwear several of the ordinary 6-inch, 60c; 7-inch, 75c sort.

TROWELS-TRANSPLANTING. 6-inch, 15c; 7-inch 20c

THERMOMETERS-JAPANNED. Tin case Common Grade8-inch, 15c; 10-inch, 20c Medium Grade8-inch, 60c; 10-inch, 75c ed by clasps on heavy metal; very accurate. 75c; 10-inch, \$1.00; 12-inch, \$1.25.

By mail, 10 cents each extra.

Maximum and Miniumum Self Registering\$3 00 Hot=Bed or Mushroom 2 00 Incubator. High-grade 50c By mail 60c. Brooder. High-grade 40c By mail 45c.

FREE GUARDS.—Made of No. 8 Galvanized Wire—reinforced by 7 bands of Galvanized Wires—fitted with coil spring—6 feet high, 11 inches in diameter. \$1.25 each; \$12.50 per doz.

Watering Pots-Watering Pots—Galvanized Short-Spout, 4-qts. 45c: 6-qts., 55c; 8-qts., 65c; 10-qts., 75c; 12-qts., 80e; 16-qts., \$1.00. Galvanized, Long Spout, Made from best quality of iron, and heavily galvanized. Two roses with each pot for fine and coarse watering 6 qt. \$1.85; 8 qt. \$2.00; 10-qt., \$2.35; 12-qt., \$2.75 10-qt., \$2.50, 12-q., WAX, GRAFTING. 1/4 lb., 10c; WAA, UKAFIING. 24 lb., 10c., 25c (By mail, add 15c per lb.) WEEDERS—CLEVELAND LAWN. The best and simplest weeder. without dis-Removes the weeds turbing the sod or disfiguring the

25c; by mail,

WIRE FOLDING PLANT STANDS.

The most compact, strong durable Plant Stands. They pack closer than any other plant stand for shipment. The ends are made of flat steel and have porcelain castors. Can be opened or folded in a few seconds time by simply spreading the stand apart at the bottom, and dropping the cross bars into their places.

The construction of the shelves or trays are such that there is more room for the pots and foliage than any other plant stand that takes the same amount of room on the floor.

" 10 1 50

WIRE WINDOW SHELF FOR PLANTS. Strong, compact, with adjustable steel brackets; can be applied to any window moulding on flat part of same. Brackets are constructed so as to allow for curtains between window and plants.

36-inch Shelf, by 7½ inches wide, with Brackets complete, \$1.00 42-inch Shelf, by 7½ inches wide with Brackets complete, \$1.20

Clipper Seed and Grain Mills.

These mills are especially adapted for cleaning Grain, Clover and Timothy Seed.

Descriptive circulars and prices for Hand and Power Mills sent on application.



Wire Flower Stand.

BLUE GRASS STRIPPER.

The only Hand Blue Grass Stripper in the market. It well made, nicely painted and varnished. A man can strip twenty bushels of seed per day with it. Weight, 4 pounds...\$1 25

GOLD FISH.

We carry in stock the following varieties of Gold Fish, all selected with greatest care to secure best qualities only, so that purchasers may rely on receiving best values for prices charged.

TELESCOPE FISH-\$1.00 to \$2.00 each.

JAPANESE FRINGE TAILS—Two and three years old, \$1.00 to \$3.00 each.

JAPANESE FANTAILS-50c to \$1.00 each.

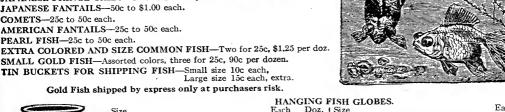
COMETS-25c to 50c each.

AMERICAN FANTAILS-25c to 50c each.

PEARL FISH-25c to 50c each.

TIN BUCKETS FOR SHIPPING FISH-Small size 10c each,

Gold Fish shipped by express only at purchasers risk.





		n/Ai	101110 1	LIVH CTOD	ES.				_
Size.		Each	Doz	Size				Each	Doz.
5½-in.— ¼-gal. a	atural apposit	- 90 25	\$2.75	0.1/-in -1	16-021 20	teuto	canacity	\$0 60	\$6 50
5 /2-in /4-gai. a	ictuai capacit	y	2 05	101/:	72-6a1. av	"	capac.	70	7 50
6 ¼-in.— ½ "	44	30		10½-in.—2		**		1 00	10 00
7½-in.— ¾ "] 12 -in.—3				1 00	10 00
8½-in.—1 "	**	45	5 00						
0/2		Chains fo	r dold fi	ch alabae 1	A conte	pach			

Chains for gold fish globes, It cents each

FOOTED FIS	SH GLOBES-Pressed Foot.	
	D	Each Doz\$1 25 \$14 06 1 50 17 06

Hanging Fish Globes. FISH FOOD...... 5 cents per box, by mail 7 cents, AQUARIUM MOSS.....10c per bunch, by mail 12 cents.

LAWN REQUISITES.

DUNHAM

ROLLER BEARING LAWN ROLLER. If you wish fine lawn,

you must

In no

smooth

ment.

Lawn Roller.

packs the soil, thus retaining the moisture

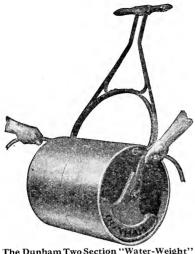
throughout the season, enab-ling young and

tender grass to secure the ne-cessary nourish-

Dunham

other manner can a

compact surface be maintained. It



The Dunham Two Section "Water-Weight"

Roller with counter-balancing
handle weights.

ing axles and are easier to operate than any other. The
omore than the ordinary rollers bearings, and cost no
more than the ordinary rollers.

The handle weights on Dunham roller bearing rollers not
split least the handle wright when not in use, but also add have automo-bile roller bear-ther. The

only keep the handle upright when not in use, but also add speed and ease of operation.

Dunham Water Weight Rollers are electric welded—no rivets are used—the drum cannot possibly leak.

no rivets are used—the drum cannot possibly leak.

E DUNHAM. Water Weight Lawn Roller No. HW-10.

2 section, 24 inches long and 18 inches in diameter. Weight, empty 160 lbs. Weight filled with water, 360 lbs. Weight filled with sand, 560 lbs. Price \$15.50.

No. HW-12. 2 section, 32 inches long and 24 inches in diameter. Weight empty, 230 lbs. Weight filled, with water, 710 lbs. Weight filled with sand, 1060 lbs. Price, \$20.40. THE DUNHAM.

DUNHAM ROLLER BEARING LAWN ROLLER. The rollers are smooth on the face, and finished in aluminum. The outer edges are rounded to avoid cutting the lawn.

No. 401—2 Section. 16 inches long and 15 inches in diameter.

weight 250 lbs. \$12.40 410—2 Section, 24 inches long and 24 inches in diameter weight 450 lbs. \$22.00 412—3 Section, 30 inches long and 24 inches in diameter

weight 500 lbs... ONE HORSE LAWN ROLLERS. No. 444—With Steel Frame and Steel Weight box, 4 Section, 40 incheslong and 28 inches in diameter. Weight 10001bs. \$65.00
No. 450—4 Section, 48 inches long and 20 inches in diameter. Weight 800 lbs, without Weight Box........\$36.00

LAWN CLEANER PENNSYLVANIA



This machine will clean your lawn and quicker than three or four men can doit with hand rakes, and greatly benefit the turf. It leaves the grass standing up straight and straightens crab up and other running weeds so they will be cut close by the lawn mower and sooner destroyed.

In the autumn it takes up the heaviest fall of leaves.

California Lawn Sprinkler

The Ring Lawn Sprinkler

THE RING LAWN SPRINKLER. The simplest lawn sprinkler made—no revolving parts to wear and get out of order or leak. Easily moved about the lawn—made of polished brass—light, durable and economical. Price.....

Bink's Chicago Sprayer

AUTOMATIC. Self-cleaning, made of best hickory, 26 teeth. 60c ENGLISH DAISY. For lawns, for tearing off daisy and dande-

OLE OLSEN. Made of best hickory, Wooden. 20 teeth......30c

HORSE BOOTS.

For use on lawn. They are made of strong leather fastened with copper rivets, and will wear a long time. Per set of 4, riveted, heavy flat soles, \$12.00

60c, by mail 70c HOSE MENDERS, HUDSON. Separate 50c doz.

bands 20c doz. HOSE MENDERS. PERFECT CLINCHING. A one-piece article which does the work of the mender tube and two clamps ordinarily used. A smooth mend with no projecting parts. A solid joint which cannot pull, apart or leak.

10c each; \$1.00 doz. COUPLING BANDS, SHERMAN SINGLE 5c each; 50c doz. DOUBLE 10c each; \$1.00 doz.

THE SNAP HOSE COUPLER. Best hose coupler, being simple

ROYLE HYDRANT ATTACHMENT. To be used for attaching

hose to smooth faucets.... U-N-I-T SPRAYER.

simple, practical device, made of Brass, to be at-tached to any garden hose, and for the purpose of ar plying any desired solution for Fertilizing the lawns, shrubbery, plants. etc., or for spraying in-secticide or soap solu-tions, for washing of windows, etc.

The sprayer screws to the hose in the place of the nozzle, and the nozzle is attached to the

other end of the coupling.

The substance can be used either in dry powder or solution. Price, \$3.50.

COLDWELL'S DEMOUNTABLE CUTTER UNIT MOWER

It has many unique and patented features which will appeal strongly to the professional Golfer, the Green Committee and all those interested in exceedingly fine and close cut lawns.

This CUTTER UNIT consists of the Revolving Cutter, the bottom or This CUTTER UNIT consists of the Revolving Cutter, the bottom or Stationary Knife and the parts necessary for adjusting the same to each other. It is set in the main frame of the mower and held in position by three thumb screws. It can be attached or removed in less than a minute. This cutter unit being separate and independent is not affected by any twisting or straining to which the main frame may be subjected in passing over rough and uneven ground.

16-inch, \$25.00; 18-inch, \$30.00, including an extra cutting unit.



COLDWELL'S REGAL BALL-BEARING

The drive wheels of Coldwell's Regal mower are locked fast to the opposite ends of a steel shaft, which is supported near its ends by ball bearings. The ball bearings are fitted with adjustable cones, by means of which the wheels can always be made to run true, no matter how much the machine is worn.

The ratchets of Coldwell's Regal Mowers consist of three large malleable iron pawls located in each of the two drive gears. These are the largest and slowest moving gears in the machine, thus providing ample room for a suitable ratchet. (These pawls are guaranteed indestructible through wear)

The stationery knife of Coldwell's Regal mower is channel shape, being double edged and reversible, which not only prevents its springing or saging, but also provides it with two cutting edges. When one edge is worn down, it can be reversed. Another important feature of this channel shaped knife over the ordinary flat knife is that there is no flat surface presented to the revolving cutter for it to wear a long dragging surface in.

16 in., \$8.50; 18 in., \$9.25; 20 in., \$10.00

THE COLDWELL "RAJAH" BALL BEARING

Is a strictly high-grade ball-bearing. It is made of first-grade material throughout; the workmanship and finish are unsurpassed. It has large drive wheels (10½ inches high), thus insuring lightness of draft. The large diameter five-blade revolving cutter makes it an exceptionally good high-class lawn mower, with a very fine cut. It is provided with flat sliding pawl ratchets; the adjustment of the bearings and the bottom knife are the simplest ever made. The adjustment of the bearings is accomplished with one screw conveniently located at the end of the revolving cutter, by means of which all wear can be taken up, and a locking screw holds them securely in place. This mower is furnished with our patent terrace mowing arrangement, reversible channel-shaped bottom knife, and is so made that our noiseless grass catcher can be attached. It is fully guaranteed in every respect.

16 in., \$7.50; 18 in., \$8.25; 20 in., \$9.00

COLDWELL'S IMPERIAL HIGH WHEEL

We claim that the Four-Blade High Wheel Imperial is just the mower for use on 90 percent of our lawns. The workmanship upon it is superior to that of any other make.

14 in., \$6.75; 16 in., \$7.50; 18 in., \$8.25; 20 in., \$8.75

SUBURBAN BALL-BEARING.

CADET LAWN MOWER.

14 in., \$2.75; 16 in., \$3.00

Coldwell's Demountable Cutter Unit Horse Lawn Mower

The Demountable Cutter Unit Horse Mower is constructed upon an entirely new principle and is a wide departure from anything of the kind ever made. The cutter section, which is the vital part of a lawn mower, is made into a unit and is independent and removable from the main frame of the mower. This unit consists of a simple frame containing the revolving cutter, the bottom or stationary knife and parts necessary for adjusting the same to each other. It is attached to the main frame of the mower by four locking screws and can be attached or removed in less than a minute. It being separate and independent of the main or larger frame, it relieves the knives from the twisting and strain that usually occurs in the frame of the ordinary horse mower when in use on rough stround.

the ordinary horse mower when in use on rough ground.

This unit, being the cutter section of the mower, is the only part necessary to send in to the factory for sharpening or adjusting. The great convenience in handling and the saving in freight and cartage charges between shipping an entire mower and the unit only, will be fully appreciated by all users of horse mowers. 30 in., \$100.00; 35 in., \$125.00, including an extra cutting unit.

GEARED ROLLER OR GOLF MOWER

This mower is made to meet the demand for a machine that will more perfectly cut borders, verges, etc., and yet retain all the other features necessary in a mower for general work. Coldwell's Roller Mower has brass bushings and triple pawl ratchets. The roller tends to make a smooth and even soil, and rolls down upheavals caused by dampness and worms. The machine with six blades

is highly recommended by most of the leading golf clubs in America for work on putting-greens.

16-inch, including grass box, \$13.50
18-inch, including grass box, 15.50

COLDWELL IMPROVED HORSE LAWN MOWER

This well known standard Mower has side draft attachments, to enable the horse to walk on the cut grass only, and caster rollers, which will not mark the lawn. Evenness of cut is assured by an adjustment which raises or lowers the two sides at the same time by means of a simple lever movement; the same lever serves the purpose of raising the knives from the ground when driving over gravel walks or roads. The mowers are fitted up with steel shafting and composition split bushings, and great care is taken to have the workmanship perfect. perfect.

EACH MOWER IS GUARANTEED TO GIVE EN-TIRE SATISFACTION TO THE PURCHASER.

30-inch, complete, with shaft and seat, \$60.00. 35-inch, complete, with shaft and seat, \$70.00. Coldwell Pony Mower, with grass box, no shafts, 25-inch, \$37.50.

COLDWELL'S LAWN EDGER

It is equipped with fine cut gears, sliding-pawl ratchet, the best tool steel bottom knife and is made to meet the demands of a really first class lawn trimmer. Price, \$5.00.

NOX ALL GRASS CATCHERS

No.	500. 510.	Made	to fit	Mower,	12	to	16	in	 	. \$0	.75
	810.	**	**	"				in			

PLANET JR. GARDEN AND FARM TOOLS

PLANET JR. means on a farm or garden tool the world over that it is the latest-improved, light-strongest, most useful and economical tool of its kind, With Planet Jrs. come less work—bigger crops-more money.

The Planet Jr. 1914 catalogue is an instructive handbook of short cuts to best results for farmers and gardeners. It illustrates 55 latest-improved Planet Jr. tools, showing many in actual use. 72 helpful pages. Write for it at once!



The most accurate seeder in action and the near-The most accurate seeder in action and the near-est perfect in construction that we have ever offered. Accuracy of construction makes for ac-curacy in operation, and it saves seed and labor and insures an even stand of plants and a cor-respondingly satisfactory crop. Has automatic feed-stopping device, valuable seeder index and complete set of cultivator attachments. Indestructible steel frame.

No. 29.—Planet Jr. Hill and Drill Seeder. Sames No. 28, as a hill and drill seeder. No culti-ating attachments, \$11.00.

vating

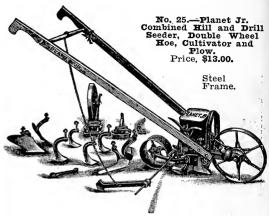


Plants all garden seeds accurately in hills 4, 6, 8, 12 or 24 inches or in drills any thickness. Hoes, cultivates, and plows quickly, and thoroughly. Popular with farmers and gardeners everywhere.

No. 4.—Planet Jr. as a Hill and Drill Seeder only,



The Planet Jr. Double Wheel Hoes are the greatest cultivating tools for the onion, and for every grower of garden crops from drilled seed. They do more and do it better and easier than can possibly be done in any other way. Works both sides of plants thoroughly and rapidly at one passage, until crops are 20 inches high. Indestructible steel frame and steal leaf liftpure. steel leaf lifters.



This combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

The simplicity of this tool, both as a seeder and as a wheel hoe, makes the combination thoroughly practical.



A new tool which gives excellent satisfaction, especially pleasing to all who work peat lands. There are three adjustable discs on each side, oil tempered, which may all be used at once or one or two on a side, as preferred.

on a side, as preferred.

The set of Prong Cultivator Teeth will be found invaluable in general cultivation. The tooth next to the row is narrow and is arranged to run shallow, the middle tooth is wider and runs ½ inch deeper, while the outside tooth is still wider and runs another ½ inch deeper, so that the work is finer and shallower next to the row, to avoid injury to the plants, and deeper in the center. The teeth are also set out of line from front to back, which makes them work with greater freedom.

No. 13½.—Planet Jr. Double Wheel Disc Hoe. Same as No. 14 but has one set of discs and one pair of leaf lifters only. \$5.50.

No. 11.—Double Wheel Hoe. Has one pair of 6-inch hoes, one pair 4½-inch hoes, two pairs hollow

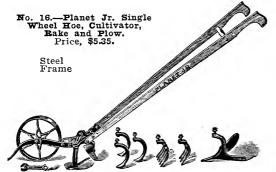
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The disc and cultivator teeth attachments will fit the other single and double wheel hoes (except No. 19) and are sold separately.

Discs, per pair\$2.25 Cultivator teeth, per pair...... 1.30

PLANET JR. GARDEN AND FARM TOOLS—Continued.

We offer these Single Wheel Hoes as the highest type of their class. They have a great variety of tools which adapt the implements to a large variety of work, and there is scarcely any garden culture of which they are not capable.



It is light, handy, and adapted to almost every arden use. Has leaf guard for close work and garden use. lasting steel frame.



You can do more and better hoeing with it in one day than you can do in three days with a hand hoe.

No. 19.—Farmer's Single Wheel Hoe, Cultivator and Plow. A cheap and effective wheel Hoe, high wheel and standard, slotted for depth regulation.

Price, \$3.50



No. 30 is the Single-Wheel Hoe portion of No. 28 Combined Seeder and Wheel Hoe.

This tool has a 15-inch wheel, and the wheel, the frame and the handles are all made of steel, so the tool is at once light and strong and almost indestructible. It is the best Single-Wheel Hoe and has the fullest equipment.

Planet Jr. Grass Edger...\$6.25

Double Moldboard Plow...\$1.55

Steel Cultivator Teeth and Bolt...\$35

Hoes Complete, 4½-inch, per pair...\$80

Hoes Complete, 6-inch, per pair...\$90

Plows for Double Wheel Hoes, per pair...\$1.10

Plow for Single Wheel Hoe, each...\$1.10



It does more kinds of work better, quicker, and easier than any other cultivator. Indispensable on the up-to-date farm.

No. 7.—Planet Jr. Horse Hoe and Cultivator. Same as No. 8 without the depth regulator. With new steel wheel \$8.25.

as No. 5 without the depth regulator. With new steel wheel, \$8,25.

No. 9.—Flanet Jr. Horse Hoe and Cultivator. This tool has a plain wheel instead of the lever wheel. With cast wheel, \$7.25; without wheel, \$8.50.



This is new and already a favorite. Finishes, at one passage, rows up to 3½ feet apart even if they vary in width. Capital level cultivator, hiller, plow, furrower. Can be fitted with vine-turner attachment and plow.



This is our latest, best tool of the kind. Thorough work in rows up to 4 feet apart. Strong; fully guaranteed.

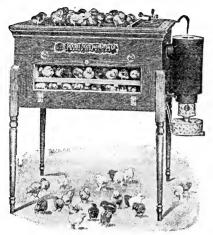


Planet Jr. 12-Tooth Harrow, Cultivator, and Pulverizer is invaluable in strawberry and truck patches and the market garden. Its 12 chisel-shaped teeth and pulverizer leave the ground in finest condition without throwing dirt on plants.

A strawberry runner attachment consisting of a 10-inch flat steel disc mounted on an outrigger. Extra, Price, \$1.85

PRAIRIE STATE SAND TRAY INCUBATORS

If you are in search of the best Incubator manufactured, the one that will hatch the largest number of strong, vigorous chicks, the Prairie State is the machine to buy.



PRICE LIST.

No.	0. —100	hen	eggs;	135	lbs.	crated	\$18.00
No.	1150	hen	eggs;	160	lbs.	crated	22.50
No.	2240	hen	eggs;	240	lbs.	crated	32.00
No.	3. —390	hen	eggs;	275	lbs.	crated	38.00

PRAIRIE STATE KEYSTONE SAND TRAY INCUBATORS

No.	0. — 60	hen	eggs; 55	lbs.	crated\$ 9.00	
No.	1100	hen	eggs			

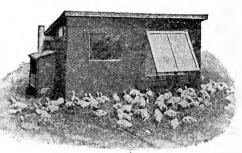
Lack of space prevents us giving detailed information concerning the Prairie State Sand Tray Incubators, Brooders and Universal Hovers, but will be pleased to send descriptive catalogue of these goods on request.

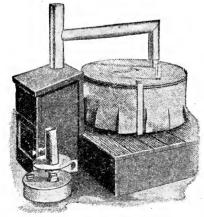
PRAIRIE STATE COMBINATION COLONY BROODERS

No. 1-(Outdoor.) Combination Colony House Brooder.

No. 3—(Outdoor.) Combination Colony Brooder. Size 27 inches wide, 48 inches long. Weight, crated Size 150 lbs.\$12.00

Heat regulator attached to any of the above brooders,





Universal Hover.

PRAIRIE STATE UNIVERSAL HOVERS

is not required.

MANN'S GREEN BONE CUTTERS

poultry raiser wants eggs, The The poultry raiser wants eggs, and wants them when eggs are worth the most. Green Bone and raw meat produce them. The hen will do her part if you give her a chance. The Mann's Bone Cutter gives you a better chance than does any other Bone Cutter.

any other Bone Cutter.

No. 5-C—For flocks of 25 to 50 hens.
Weight, 35 lbs. Price. \$6.00

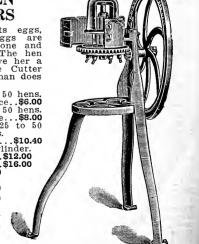
No. 5-B—For flocks of 25 to 50 hens.
Weight, 60 lbs. Price. \$8.00

No. 5-B. M.—For flocks of 25 to 50 hens.
Weight, 85 lbs.

Price

No. 12-Capacity, 150 lbs. per hour. Weight, 260 lbs. Price. .\$30.00

Every Hand-Power Mann Bone Cutter is warranted by us against breakage for one year, and we hereby agree to replace, free of charge, any breakage which occurs while cutting bone within one year from date of purchase, provided purchaser pays express charges on broken part. This insures the purchaser a first-class article.



No. 7 Mann's Bone Cutter-\$12.00.

Send for Free Descriptive Catalogue.

INTERNATIONAL SANITARY HOVER

The only brooding device in existence warmer at the curtain than near the center. This causes the chicks to distribute themselves near the curtain, where there is abundant fresh air instead of crowding to the center to trample one another or suffocate. The hover can be carried around with ease and used anywhere. It is well suited to portable brooders or colony houses, but can be used in a hen house, barn or cow's stall, a piano or organ case, in some place sheltered from wind and rain. It is circular in shape, and there is no corner for chicks to crowd into. It is metal throughout and fireproof, no solder being used in making it. There are no crevices nor seams for vermin to gather in. It provides larger hovering space than any other standard hover. No carpenter work is required to set it up. No cutting of holes nor building of platforms. The hover and the surrounding floor space are always on the same level. The lamp can be lifted out through the top by the operator while standing up, which makes it unnecessary to kneel in dust or mud to attend to the lamp. There is no possibility of gases or fumes from the lamp getting into the air breathed by the chicks. During the fall and winter months the Sanitary Hover can be used to sprout oats and so provide a winter supply of green food. Twelve quarts of Oats sprouted under the Sanitary Hover will give in 8 days, 2½ bushels of green food—enough to feed 500 hens, 3 days. Price.....\$8.50



"RED CHIEF"

RAPID GRINDING FEED AND GRIST MILL

-Capacity 2 to 4 bushels per our. Weight 35 lbs. No. 10hour. Price

No. 5 Price

No. 1with crank. Price.

Nos. 1 and 5 Mills Clamps or bolts to box as desired. Has hooks on which to hang a bucket. "RED CHIEF" HAND CORN SHELLER. Price......\$2.00

NEW MODEL CLOVER CUTTER FOR POULTRY

Removable steel knives, adjustable cutter bar; runs easy; cuts

Price.....\$10.00

BLACK HAWK GRIST MILL

With a Black Hawk Grist Mill you can crack the corn or grind any kind of grain to whatever degree of fineness you desire or whichever will best suit the age or condition of your chickens. Weight of Mill, 17 lbs. Price, complete, \$3.00. Extra grinders, per pair, 40c.

THE MODEL GRINDING MILL

Grinds all kinds of feed for chickens and other domestic fowls and animals. Adjusted to grind fine or course. The burrs are made of Stel-Alloy metal, and are the most durable grinding surfaces made.

No. 1, capacity ½ to 1 bu. per hour......\$

No. 2, capacity ¾ to 1½ bu. per hour......

No. 3, capacity 1 to 2 bu. per hour.....

The No. 3 can be furnished with an 8-inch pulley in addition to fly wheel, if desired.

DAVIS ANTI-LOUSE ROOST BRACKETS

PREVENT MIDGE LOUSE OR RED MITE RAVAGES.

No. 1. Single Roost Style; per pair, **75c**; 3 pairs, **\$2.00**; 6 pairs, **\$3.50**; 12 pairs, **\$6.25**. No. 2. Multiple Roost Style; per set, **\$1.25**; 3 sets, **\$3.25**; 6 sets, **\$6.00**; 12 sets, **\$11.50**.

BLACK HAWK CORN SHELLER

This Sheller is simple, easily adjusted, and will shell clean all kinds of field corn. Its construction is such that it can not choke. Everything is fursished with the sheller necessary to clamp it to the box or board. Price.......\$2.00

PONY CORN SHELLER

This is a good, cheap Corn Sheller, made to meet the demands of the trade where an expensive corn sheller is not required, and where great durability is not necessary. Price.....

LIGHTNING LICE KILLING MACHINE

The Lice Killing Machine works on the same principle as a thorough dust bath. You put 8 to 10 full grown fowls or 30 to 50 chicks in it at a time and sprinkle only one teaspoonful of Lice Powder over them. The drum of the machine is then revolved slowly 8 or 10 times. No other work is required. When the chickens are taken out they will sprawl on the ground shaking the



out they will spiral on the ground, shaking the Lice Powder with dead and dying insects from their feathers, just as though enjoying a fine dust bath.

Sanitary Hover.

To be successful in getting winter eggs, keep your fowls free from lice by using Lightning Lice Killing

Machine.

It is best when the machine is used for the

first time to give the chickens a special treatment in it ten days after the first, in order to kill the insects which hatch from nits (insect eggs) deposited on the feathers. 1 Machine, suitable for young chicks or

time Machine, suitable for chickens of the Mediterranean class and birds, such as Turkeys, Cochins and Brahmas. This size is not suitable for young chicks or pigeons No. 3

4.00 FREE.

With each machine one-half pound of special Lice Powder for use in the machine is given free.

Banner Root Cutter. No. 7

It quickly cuts vegetables in long, round, ribbon-like slices, which fowls eat up to the last morsel. It is a valuable addition to the poultry house and highly recommended by the best poultry experts in Price....

McCullough Exhibition Coops

McCullough Exhibition

In offering these Coops we have combined attractive appearance with first-class material and workmanship, insuring durability. Quarter-inch iron rods in front and heavy canvas on ends, back and top; also fitted with a curtain at the top for closing down. Door is large and rises full height of coop, while in front a small door at the bottom permits cleaning readily. Being put together with screws, can readily be taken apart for storing when not in use. Single, pair or trio size, \$2.00 each; pen size, \$2.50 each.



Humpty Dumpty Egg Carrier

The Best, Cheapest and Most Convenient Egg Carrier in Existence.

The Original Folding Egg Crate has outclassed everything in its line. Made in 6 and 12 dozen size. Price: 6 doz. size, 25c each; \$2.50 per doz. 12 doz., 35c each; \$3.00 per doz.

Egg Boxes, Paper. 1 doz. size, 15c doz., 75c per 109, \$6.50 per 1000.

Wood's Revolving Egg Cabinets ggs intended for hatching should be turned

Eggs intended for hatching should be turned daily; the warmer the temperature the more necessary that they be turned. Eggs for market should be turned every two or three days, if kept any length of time. We recommend these cabinets very highly. Prices: 150-egg size, \$3.50; 288-egg size, Wood's Pony Cabinet. 72-egg size......\$1.00

Eyrie Egg Box

The handle, when put in place, locks the box, and can not be tampered with in transit. The eggs are completely surrounded by double-faced corrugated paper, which provides a dead air space, effectually preventing their chilling in the coldest weather. Prices: No. 1, 15-egg size, 15c each, \$1.25 per doz.; No. 2, 30-egg size, 20c each, \$1.90 per doz. Prices Subject to Change Without Notice.

Zero Safety Lamp

The Zero Safety Lamp carries off the heat as fast

The Zero Safety Lamp carries off the heat as rast as it forms.

All the air used by the lamp is drawn up the sides, across the top of the oil tank, up the entire length of the collar and burner, thus carrying off the heat as fast as formed and keeping the oil cool. The Zero Lamp and chimney are made of the very best quality of galvanized iron, and the lamp is fitted with a heavy brass burner. Price \$1.00 each. By mail, 25c extra.

Incubator Lamps. No. 1—For No. 0 Incubator, 60c.

Incubator Lamps. No. 2—For No. 1 Incubator and all sizes of Colony Brooders and Universal Hover, 65c.

Incubator Lamps. No. 3—For No. 2 and 3 Incubators, 75c.

bators, 15c.

Lamp Burners. Sun Hinge Burner, No. 1, using ½-in, wick, 25c; No. 2, using 1-in, wick, 35c; No. 3, using 1½-in, wick, 50c.

Lamp Wicks. No. 1 and No. 2 wicks, 15c doz.;

Lamp Wicks. No. No. 3 wicks, 25c doz.

Model Blue Flame Gas Burner

This burner was designed to supply the demand for a blue flame burner suitable for Incubator and Brooder work. This burner may be turned low without popping out and may be regulated and set to meet the varying pressures of gas and may be used satisfactorily with manufactured or natural Price

The Jersey Pigeon Perch

Made of seasoned maple and coppered steel wire. Screws into the woodwork of the loft. Will last a life

of the lott, will last a life time.

3 inches in diameter, 7c each; by mail, 10c; 50, \$3.25; 100, \$6.00.

3½ inches in diameter, 8c each, by mail, 10c; 50, \$3.50; 100, \$6.50.



Jersey Perch.

X-Ray Egg Tester

The X-Ray Egg Tester used on an ordinary hand lamp and fits over any style of burner with a diameter approximating that of the tester. Price of X-Ray Egg Tester 30c each; postpaid, 40c.

Union	Lock	Poultry	Fencing
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12-in.	bale	of	10	rods.					٠.					\$1.25
18-in.	bale	of	10	rods.									٠.	1.75
24-in.	bale	of	10	rods.					٠.					2.25
36-in.	bale	of	10	rods.										2.75
48-in.	hale	of	10	rods.										3.25
60-in.	hale	of	10	rods.										3.75
72-in.	hale	of	īă	rods					•					4.25
48-in.	avtra	he	97/7/	wire	h	ale	Ωf	10	r	'n		• • •		6.75
60-in.	avtro	ha	977	wire	, h	ale	of	10	r	nd:	٠.	• • •	• • •	8.30
47-in.	Hor	Tror	avy	holo	, of	10	ro	ųσ,	1	ou.	٠.	• • •	٠.	4.50
55-in.														
Staple	21108	r lh	icc,	Dare	OI	10	10	us.	٠.	• •	٠.	• • •		10
Staple														
	- 11			T	D					_ =				

Hexagon Poultry Fencing

We also carry in stock for those desiring a cheaper wire.

		2	2-in	ch Me	esl	n.	No. 1	9 w	ire.				
Per	bale.	150	ft.	long,	3	ft.	wide.						\$2.20
Per	bale,	150	ft.	long.	4	ft.	wide.						. 2.90
Per	bale.	150	ft.	long.	5	ft.	wide.						3.60
Per	bale,	150	ft.	long,	6	ft.	wide.						. 4.35
1	essi	han	fii	II hale	29	75	c ner	100	SO	nar	ο .	fei	et.

Hexagon Poultry Fencing

	1-inc	h Mesh.	No. 20 wire.	
Per bale.	150 ft.	long, 1	ft. wide	\$1.65
			ft. wide	
Per bale.	150 ft.	long. 2	ft. wide	3.30
			ft. wide	
Less th	nan full	bales \$1.	50 per 100 squar	e feet.

Wire Nests

Made from heavy japanned steel wire, and will last a life time. Prices 15c each; \$1.50 per doz.



Poultry Killing Knife

Every poultry raiser who kills and dresses for market should own one of these

for market should own one of these Knives. This knife penetrates the brain in such a manner that the feathers loosen and come off easy. Price.....

Gape Worm Extractor

G.P.PILLINGRESON.PHILA.

This instrument is especially constructed for the purpose, and is the best Gape Worm Extractor manufactured. Postpaid250

Pigeon Nests

Molded from clay, and are easily cleaned. Prices: 8 in., 10c each, 3 for 25c; 10 in., 15c each, 2 for 25c.

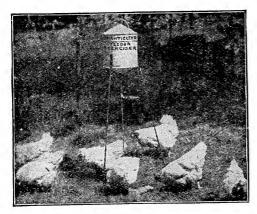
Pillings' Caponizing Instruments

Any one purchasing a set of these caponizing instruments will find he is making no mistake. Price, complete with full instructions in paper box, \$2.50; in velvet-lined case, \$2.75. We will send with each set of caponizing instruments a booklet entitled, "Complete Guide for Caponizing" fully illustrated.

Tycos Incubator Hygrometer

Thermometers—Brooder. High grade, tested, 40c; by mail, 45c.
Thermometers—Incubator.
50c; by mail, 60c.
Coop Seals—Per doz., 30c; 25 for 50c; 60 for \$1.00; 100 for \$1.50.

FEEDING DEVICES FOR POULTRY



Chanticleer Feed-Exerciser

The Chanticleer is sparrow, rat, mouse and rain proof. It is practically indestructible and will last many years. Will feed any kind of feed, coarse, fine or mixed. Adjustable to feed lavishly or only a grain or two at a time. You may sleep late, but the hens will begin their exercise at day-break.

No. 1. 12-quart hopper, weight 15 lbs.....\$3.50 No. 2. 24-quart hopper, weight 20 lbs..... 4.25

DOUBLE QUICK GRAIN SPROUTER

tions, etc.

3—Largest sizes will pass through ordinary Note



McCullough's Sanitary Glass Chick Fountain

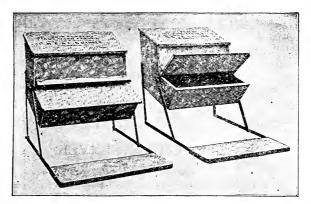
Best Fountain made for Chicks.

15c each, 6 for 90c, \$1.75 per dozen.



WALL FEED PANS

These wall pans are manufactured from galvanized iron so they can be hung upon the wall of the house at any height desired. Price, 35c each; \$3.50 doz.

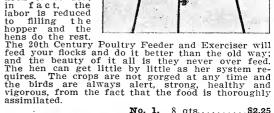


The 20th Century Dry Mash Feeder

Designed for feeding all kinds of dry ground feed, such as bran, chop middlings, meat meal and beef scraps, either single or mixed; and to supply the urgent needs and demands for a hopper that would feed this class of feed without waste. This is the only hopper that will successfully open when the hen desires food and close when she is through eating.

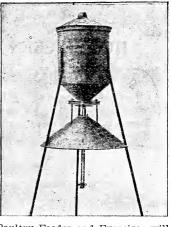
20th Century **Poultry** Feeder and Exerciser

makes it possible to reduce the labor one half or more, for when the rounds of filling the hoppers has been made, the the hoppers has been made, the work of grain feeding is complete for several days, depending on the size of machine and flock to be fed; in fact, the labor is reduced to filling the hopper and the





Poultry Feeder-1-2-3



1,	8	ats.					\$2.25
5,	32	ats.					4.25
0.	4	ats.	(C	hi	ck		
	size) .					1.75
	2, 3, 4, 5,	2, 12 3, 18 4, 24 5, 32 0. 4	2, 12 qts. 3, 18 qts. 4, 24 qts. 5, 32 qts. 0. 4 qts.	2, 12 qts 3, 18 qts 4, 24 qts 5, 32 qts 0. 4 qts. (C	2, 12 qts 3, 18 qts 4, 24 qts 5, 32 qts 0. 4 qts. (Chie	2, 12 qts 3, 18 qts 4, 24 qts 5, 32 qts 0. 4 qts. (Chick	1, 8 qts

Poultry Feeder, 1-2-3

For Dry Mash, Scraps, Shells, Grit, Charcoal or any poultry feed. When used for one kind of feed used for one kind of feed only take out separator; for two kinds put separator in one end; when used for three kinds, say scraps, shells and grit, put separator in the middle and you have three separate feeders. 75c each; \$8.00 doz.

FEEDING DEVICES FOR POULTRY—continued.

NATIONAL ADJUSTABLE FEEDER

WASTE-PROOF,

RAT-PROOF.

WEATHER-PROOF.

The No. 0 and No. 1 feeder has two compartments, the No. 2 has three compartments, divided by two partitions in the hopper, and as many different kinds of feed may be fed without mixing as there are compartments in the feeder; or the feed may be mixed as desired.

SIZES AND PRICES.





CHICK SERVERS

These chick servers give out pure food and water at all times until the supply is consumed. They are made of galvanized iron in two parts, cone and basin. Price 25c each; \$2.75 dozen.

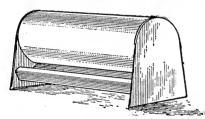
Chick Servers.

Atsatt's Feeder

Atsatt's Feeder meets a long standing want. Chicks can not get into it to dirty

meets a long standing want. Chicks can not get into it to dirty the food. The top removes to fill or clean. Equally good for water or food comfort for the poultry, is very little trouble. No expense and no danger. Chick size.......25c. Poultry size.........50c

HUB CHICKEN FEEDER



sanitary. keeps the feed clean and dry. Chickens can not get into it, and can not waste the feed. It will pay to use the Hub Feeder for r for all m chickens.

night Αt turn the feeder over backwards until face down and nothing can get into it. 9-in. Feeder......35c 15-in. Feeder......50c



Dry Food Hopper .-

Two compartment. Dry feeding has become very popular as it is an economical and labor-saving method of feeding poultry. We recommend this hopper for all who desire to use this method. It has two compartments, one for dry mash, holding about six quarts and the other about three quarts for compartment, Dry six quarts and the other about three quarts for beef scrap, being made of heavy galvanized iron as it is better and more lasting than wood. The hinged lid protects the grain. 60c ea.; \$6.50 doz.



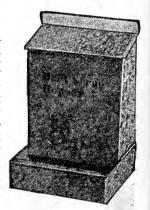
Prairie State Grit and Shell Box.—This box is made of heavy galvanized iron, with 3 compartments, for grit, oyster shell and charcoal. It is provided with a cover or lid, which

protects the contents.

50c each; \$5.00 doz.

Prairie State Beef Scrap
and Dry Food Hopper.—
This hopper is made of
heavy galvanized irrow with heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef, scrap and dry mash, and will not clog. Capacity, 10 pounds scrap.

50c each; \$5.00 doz.



DRINKING FOUNTAINS FOR POULTRY AND PIGEONS



McCULLOUGH'S WALL FOUNTAIN

These fountains are equally serviceable for young chicks or adult fowls, and especially

Brooder	size	, .	350	3
i gallon	٠		500	3
2 gallor	ıs		750	3

Peerless Drinking Fountain

to clean and fill and fowl can not injure their drinking. Simple in durable and practical. combs when construction.

Br	ooder	size										.35c
5	quart	size.										.60c



PEERLESS HEATER

The water will never freeze or become too warm. Easy to care for. Costs but little to run. The lamp holds one pint kerosene. Will last one week (daytime). An air space between oil well and heat chamber makes it impossible for gas to form. Price. \$1.00

Peerless Combination 5 qt. Fountain and Heater complete. \$1.50

Galvanized Sanitary **Drinking Fountains**

Made of heavy galvanized iron and not injured by freezing. Price,

Galvanized Sanitary Fountain Heaters

For use on Galvanized Sanitary Drinking Fountain. Lamp burns 24 hours. Little expense and no danger. Great comfort for the poultry; promotes growth and increases eggs. Price, 1 gal. size, 50c.

DRINKING FOUNTAINS FOR POULTRY AND PIGEONS—continued.

FOOD OR WATER CUPS

Made of iron, strong and durable. Hold ½ pint ach: enough for all ordinary purposes. The wires the of from, strong and durable. Hold %2 pint; enough for all ordinary purposes. The wires be bent to secure them to any style coop and will soon save their cost in preventing waste bod. Price, each, 15c; per doz., \$1.50. each; each; each they w



Sanitary Stoneware Fountain.

Sanitary Stoneware Fountain

The top is removable allowing the fount to be thoroughly cleaned inside. The proper thing to use where medicine is given in the delivition water. where medicine is given in the drinking water.

1-qt., 20c each. 2-qt., 25c each. 4-qt., 35c each. 8-qt., 45c each. \$2.00 doz. 2.50 doz. 3.50 doz. 4.50 doz.



W. R. Poultry Fountain.

W. R. Poultry Fountain

This fountain is made in one piece, strongly built; largely used for Pigeons. Prices: ½ gal., 25c; 1 gal., 35c; 2 gal., 50c.

Galvanized Prairie State Drinking Fountains

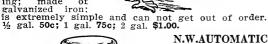


fountains are light, non-breakable,

easily cleaned.
1 qt., 20c each; 2 qt., 25c; 4 qt., 35c; 8 qt., 50c.
Prairie State Open Top Duck Fountain, 2 gallon size, \$1.00 each.

Banty Sanitary Drinking Fountains only sanitary fountain that can be filled quickly and af-ter filling at house can easily be carried to poultry yard. It protects the water at times, can all

times, can be fouled not by wading or roost-ing; made of galvanized iron; ing; mad galvanized





Patent Applied For.

FEEDER AND FOUNTAIN

BANTY SANITARY DRINKING

FOUNTAIN

PAT. NOV. 7, 05

Made to fit any half gallon, quart or pint Mason jar. We do not furnish

jars.
Two Sizes: Two Sizes:
No. 5, having 5
inch pan, 10c
each, 3 for 25c.
No. 6, having 6
inch pan, 15c
each, 2 for 25c.

Leg Bands for Poultry and Pigeons Know Your Hens on Sight



Black, White, Blue, Pink, Amber and Ruby

25c a cozen, 50c for 25, 85c for 50, \$1.50 for 100. The bands are the cheapest on the market. First cost is the only outlay. They will last a lifetime. In ordering be sure to specify your breed. Baby Chick and Pigeon Bands, 20c a doz., 35c for 25, 60c for 50, \$1.00 for 100.

The Smith Double Clinch Leg Bands

Fastens with two clinches passing through the band in such manner as to form a protection to themselves, making it at once the best open band on the market. Price, 15c per doz.; 25 for 30c; 50 for 50c; 100 Clinch Leg Bands. doz.; 25 for 75c.



Leader Adjustable Leg Bands

Made of aluminum in 2 sizes, which are adjustable to fit any fowl, large or small. Impossible for them to come off, being held by a double lock.

No. 1 size for Bantams and Leghorns. No. 2 size for all larger breeds and Turkeys.

25 for 30c; 50 for 50c; 100 for 75c.

Leg Bands For Pigeons

OPEN BANDS—One size only, suitable for any breed and any number desired. Price: per doz., 15c; \$1.00 per 100; postpaid, \$1.10.

ROOFING PAPERS

Rex Flintkote Roofing. ½ ply, \$2.00; 1 ply, \$2.25; 2 ply, \$3.25; 3 ply, \$4.25; all per square of 108 ft.
Thex Waterproof Insulating, Building and Sheathing Paper. 1 ply, \$2.50; 2 ply, \$4.00; all per roll of 1,000 square feet.
Red Rosin Sheathing Paper. No. 1, 60c; No. 2, 75c; No. 3, \$1.00; all per roll.
Tarred Felt Roofing. 2 ply, 80c; 3 ply, \$1.00; all per roll

per roll.

per roll.

Tin Roofing Caps. 10c. per lb.
Roofing Nails. 8c per lb.
Rex Roof Paint. Per gallon, 75c; 5 to 10 gal.
lots. 60c per gallon.
Flintkote Plastic. 1 qt., 40c; 1 gallon, \$1.25.

EGGS FOR HATCHING

FROM THOROUGHBRED STOCK.

We can furnish eggs from any standard bred poultry, also of ducks, geese or turkeys. We can also furnish Incubator Eggs by the hundred or thousand almost any variety, on short notice. thousand almost any Write for special prices.

MISCELLANEOUS SUPPLIES Lice Expelling Nest Egg

The Lice expelling Nest Egg

The Lice expelling Nest Egg is the standard combined nest egg and lice killer. The use of this nest egg insures absolute freedom from all kinds of insect pests in the nests. Being prepared with great care for this special purpose, they last a long time and always retain their effectiveness. Prices: 5c each; 50c per dozen.

PORCELAIN NEST EGGS.

These eggs are made of first-class flint glass, and should last a life-time. Prices: 2 for 5c; per dozen. 20c.

McCullough's Roup Cure. Small size package

McCullough's Roup Cure. Small size package, 50c; large size package, \$1.00.
Lee's Germozone. Bottles, 50c each; Tablets, 50c

per box. Lee's Insect Powder. 11/4 lb. box, 25c.

Lee's Liquid Lice Killer. 1 qt. can, 35c; ½ gal. can, 60c; 1 gal. can, \$1.00.

Lee's Egg Maker. 21/2 lb. package, 25c. Cypher's Lice Paint. 1 qt. can, 30c; ½ gal. can, 50c; 1 gal. can, 75c.
Essex Model Nutrine Chick Salts. 2 lb. package,

50c; 5 lb. package, \$1.00.

CONKEY'S POULTRY REMEDIES

Conkey's Roup Remedy. 25c, 50c and \$1.00 per pkg. Conkey's Bronchitis Remedy. 50c per package. Conkey's Cholera Remedy. 25c and 50c per pkg. Conkey's Chicken Pox Remedy. 50c per package. Conkey's Chicken Pox Remedy. 50c per package. Conkey's Scaly Leg Remedy. 50c per package. Conkey's Gape Remedy. 50c per package. Conkey's Gape Remedy. 50c per package. Conkey's White Diarrhoea Remedy. 50c per package. Conkey's Poultry Tonic. 25c per package. Conkey's Blackhead Remedy. 50c per package. Conkey's Rheumatic Remedy. 50c per package. Conkey's Poultry Worm Remedy. 50c per package. Conkey's Poultry Laxative. 25c per package. Conkey's Poultry Laxative. 25c per package. Conkey's Heading Salve. 25c per package. coz. tube, 25c.
Conkey's Lice Powder. 5 oz. package, 10c; 15 oz. package, 25c; 48 oz. package, 50c; 100 oz. package,

\$1.00 Conkey's Lice Liquid. 1 qt., 35c; 2 qts., 60c; 1

gal., \$1.00. Conkey's Laying Tonic. 1½ lb. package, 25c; 3¼ b. package, 50c; 7 lb. package, \$1.00; 25 lb. pail,

**Conkey's Noxicide. Small size, 35c; 1 qt., 60c; ½ gal., 90c; 1 gal., \$1.50.

Conkey's Sulphur Fumigating Candles. 10c each, 3 for 25c; 1 doz., \$1.00.

Conkey's Fly Knocker. Per qt., 35c; ½ gal., 60c; per gal., \$1.00; 5 gal. can (Jacketed) \$4.00. Small size, 35c; 1 qt., 60c;

PRATT'S POULTRY AND STOCK REMEDIES

Pratt's Poultry Regulator. 26 oz. package, 25c; 4 lb. package, 50c; 12 lb. package, \$1.25; 25 lb. pails, \$2.50; 100 lb. bag, \$9.00.

Pratt's Roup Cure. 25c, 50c and \$1.00.

Pratt's Read Lice Ointment. 10c and 25c.

Pratt's Gape Remedy. 25c and 50c.

Pratt's White Diarrhoea Remedy. 25c and 50c.

Pratt's Lice Killer (powdered form). Trial size, 10c; 1 lb. package, 25c; 2½ lb. package, 50c.

Pratt's Liquid Lice Killer. 1 qt. can, 35c; 2 qt. can, 60c; 1 gal. can, \$1.00.

Pratt's Cholera Remedy. 25c and 50c.

Pratt's Animal Regulator. 24 oz. package, 25c; 50 oz. package, 50c. Can also furnish 25 lb., 50 lb., and 100 lb. bags. Prices on application.

Pratt's Conditioner. 7 lb. package, 50c; 12 lb. bags, 75c. Can also furnish in 25 lb., 50 lb. and 100 lb. bags. Prices on application.

Pratt's Heave, Cough & Cold Cure. 1 lb. package, 50c.

Pratt's Veterinary Colic Cure. 50c and \$1.00 per bottle.

bottle

Pratt's Spavin Paste. 50c per box.
Pratt's Liquid Spavin Remedy. 50c and \$1.00 per bottle.

Pratt's Distemper and Pink Eye Cure. 50c per

bottle.

Pratt's Dip and Disinfectant. 1 gal. can, \$1.00. Can also furnish in 5 and 10 gal. cans, also in 30 and 50 gal. barrels. Prices on application.

Pratt's Liniment. 25c, 50c and \$1.00 bottles.

Pratt's Bag Ointment. 25c and 50c boxes.

Pratt's Peerless Hoof Ointment. 25c and 50c

boxes Pratt's Condition Powder. 25c, 50c and \$1.00 per

package Healing Ointment (for man or beast). Pratt's

25c and 50c boxes.
Pratt's Healing Powder. 4 oz. sifting top can,

Pratt's Worm Powder. 50c per box.
Pratt's Cow Tonic. Per package, 50c; \$2.00 for 2 lbs. and \$3.50 for 25 lbs. in palls.
Pratt's Calf Tonic. Per package, 50c; 12 lb.

Pratt's Galf Tonic. Per package, 50c; 12 lb. pails, \$2.00.

Pratt's Hog Cholera Specific. Per package, 50c; 12 lb. pails, \$2.00; 25 lb. pails, \$3.50.

Pratt's Germ-a-thol. 25c, 50c and \$1.00 per bottle. Can also furnish in 1, 5 and 10 gallon cans and 50 gallon barrels. Prices on application.

DR. HESS & CLARK REMEDIES

Poultry Panacea. 1½ lb. package, 25c; 5 lb. package, 60c; 12 lb. package, \$1.25; 25 lb. pails. \$2.50.

Instant Louse Killer. 1 lb. package, 25c; 3 lb. package, 60c.

Stock Tonic. 2½ lb. package, 25c; 7 lb. package, 50c; 12 lb. package, 25c; 7 lb. package, 50c; 12 lb. package, 25c; 7 lb. package, 50c; 10 lb. and 100 lb. bags. Prices on application.

Healing Powder. 4 oz. pkg., 25c; 10 oz. pkg., 50c.

Worm Powder. 1½ lb. package, 50c.

SPRATT'S POULTRY AND GAME FOODS

Spratt's Patent Poultry Food. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$5.50.

10s., \$5.50.

Spratt's Patent Chick Meal. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$5.50.

Spratt's Game Food. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., \$5.50.

Spratt's Pheasant Meal. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs.

Spratt's Turkey Meal. Per lb., 10c; 3 lbs., 25c; 1 lbs., 75c; 25 lbs., \$1.75; 50 lbs., \$3.25; 100 lbs., lbs., \$5.50.

Spratt's Foods For Dogs, **Puppies And Cats**

Spratt's Patent Dog Cakes. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$3.50; 100 lbs., \$6.50.
Spratt's Patent Puppy Cakes. Per lb., 10c; 3 lbs., 25c; 10 lbs., 75c; 50 lbs., \$3.50; 100 lbs., \$7.00.
We offer the following Dog Foods in cartons.
Larger quantities, prices on application.
Spratt's Meat Fibrine "Terrier" Cakes. 25c each.
Spratt's Meat Fibrine "Terrier" Cakes. 25c each.
Spratt's "Toy Pet" Biscuits. Cartons, 25c each.
Spratt's Malt and Cod Liver Oil Biscuits. 25c each.
Spratt's Charcoal Dog Cakes. Cartons, 25c each.
Spratt's Plain Puppy Meal. Cartons, 25c each.
Spratt's Pepsinated Puppy Meal. Tins, 25c each.
Spratt's Pepsinated Puppy Meal. Tins, 25c each.
Spratt's Cat Food. Cartons. 25c each.
Spratt's Malt and Kitten Food. Tins, 25c each.

Spratt's Dog Remedies

Spratt's Alterative Cooling Tablets. 50c postpaid. Spratt's Anti-Rickets Tablets. 50c postpaid. Spratt's Anti-Vomit Tablets. 50c postpaid. Spratt's Chorea Tablets. 50c postpaid. Chorea Tablets. 50c postpaid.

Digestive Tablets. 50c postpaid.

Diarrhoea Tablets. 50c postpaid.

Distemper Tablets. 75c postpaid. Spratt's Spratt's

Spratt's Eczema and Sarcoptic Mange Remedy. Spratt's 50c postpaid

50c postpaid.

Spratt's Kidney Tablets. 50c postpaid.

Spratt's Liver Tablets. 50c postpaid.

Spratt's Liver Tablets. 50c postpaid.

Spratt's Mange Remedy. 50c postpaid.

Spratt's Purgative Tablets. 50c postpaid.

Spratt's Rheumatism Tablets. 50c postpaid.

Spratt's Worm Capsules. 50c postpaid.

Spratt's Worm Capsules for Pupples. 50c postpaid.

Spratt's Tonic and Condition Tablets for Toy

Dogs and Puppies. 50c postpaid.

Spratt's Distemper Tablets for Toy Dogs and

Puppies. 50c postpaid.

Spratt's Vermifuge Capsules for Toy Dogs and

upples. 50c postpaid.

Spratt's Vermifuge Capsules for Toy Dogs and upples. 50c postpaid.

Spratt's Dog Soap (white). 25c per tablet, post-

RUST'S POULTRY REMEDIES

EGG PRODUCER.

RUST'S HAVENS ROUP PILLS.

 Box of 50 pills.
 \$.25

 Box of 112 pills.
 .50

 Box of 250 pills.
 1.00

 SOLUBLE ROUP POWDER.4 oz. size.......\$.25 9 oz. size........50c
20 oz. size....... 1.00

LIQUID LICE KILLER.

Quart can, 35c; half gallon can, 60c.
One gallon can, \$1.00; 5 gallon can, \$4.00.

QUICK HEALING POWDER. % oz. size, 25c.

Lambert's Death To Lice Remedies

Death to Lice Powder. 5 oz. size, 10c; 15 oz. size, 25c; 48 oz. size, 50c; 100 oz. size, \$1.00.

Death to Lice Ointment. 10c and 25c.

Death to Lice Special. 4 oz. size, 10c; 16 oz. size,

25c. Valuable aluable books, giving complete descriptions of the above Remedies, and other information,



FEEDS FOR POULTRY, PIGEONS AND BIRDS

PRICES SUBJECT TO MARKET CHANGES.

FEEDS FOR POULTRY











	I EEE DO I OIU I		TIVI			
	Globe Scratch Feed, no grit 5 lb	bs. 15c		25c.	100 lbs.	\$2.00
	White Feather Globe, no grit for white fowls, so	same pri	ice as Globe			
	Queen Poultry Mash 5 lb	bs. 15c		25c.	100 lbs.	1.95
	Sun Chick Starter, no grit 4 lt	bs. 15c	. 8 lbs.	25c.	100 lbs.	2.30
	Crescent Chick Food, no grit 4 lb	bs. 15c	. 8 lbs.	25c.	100 lbs.	2.20
	Colonial Developing Food, no grit 4 lb	bs. 15c	. 8 lbs.	25c.	100 lbs.	2.15
	King Pigeon Food, no grit		7 lbs.	25c.	100 lbs.	2.40
	PURINA. Scratch Feed, no grit 5 lb	bs. 15c	. 8 1-3 lbs.	25c.	100 lbs.	2.15
	" Chick Food, no grit 4 lb		. 8 lbs.	25c.	100 lbs.	2.25
	" Pigeon Food, no grit		7 lbs.	25c.	100 lbs.	2.50
	" Chicken Chowder 4 lb	bs. 15c.		25c.	100 lbs.	2.30
	Alfalfa Meal, choice 5 lb			25c.	100 lbs.	1.55
	Darling's High Protein Meat Scraps 6 lb	bs. 25c		50c.	100 lbs.	3.00
	" Beef Meal 6 lb	bs. 25c		50c.	100 lbs.	2.50
	" Blood Meal 5 lb			45c.	100 lbs.	3.60
	Spratt's Poultry Meal 3 lb			75c.	100 lbs.	5.50
	" Chick Meal 3 lb			75c.	100 lbs.	5.50
	" Dog Cakes 3 lb			75c.	100 lbs.	6.50
	" Puppy Cakes 3 lb			75c.	100 lbs.	7.00
	Kaffir Corn, white recleaned			25c.	100 lbs.	2.10
	Sunflower Seed, recleaned 4 lb			45c.	100 lbs.	4.50
	Cracked Corn 6 lb			25c.	100 lbs.	1.90
	Bran			25c.	100 lbs.	1.65
	Corn Meal 6 lb			25c.	100 lbs.	1.90
	Middlings 6 lb			25c.	100 lbs.	1.80
	Whole Corn, shelled 6 lb			25c.	100 lbs.	1.85
	Buckwheat, recleaned 4 lb			25c.	100 lbs.	2.10
	Chicken Wheat			25c.	100 lbs.	1.70
	Feed Barley 4 lbs		8 lbs.	25c.	100 lbs.	1.75
	Chicken Millet			25c.	100 lbs.	1.50
	Oats, white recleaned			25c.	100 lbs.	1.85
	Hulled Oats, choice		10 lbs.	45c.	100 lbs.	3.65
	Steel Cut Oats, choice			45c.	100 lbs.	3.65
	Linseed or Oil Meal 4 lb:			25c.	100 lbs.	1.85
	Cotton Seed Meal 5 lbs			25c.	100 lbs.	1.70
	Granulated Bone, coarse, medium and fine. 6 lbs			50c.	100 lbs.	2.75
	Charcoal, coarse, medium and fine 3 lbs		8 lbs.	25c.	50lb. bag	1.00
١	Oyster Shells, coarse and fine		50 lbs.	45c.	100lb. bag	65
	Mica Crystal Grit, coarse, medium and fine. 10 lbs		50 lbs.	45c.	100lb. bag	65
	and the form		00 100	1000	- 3 0 1 0 1 0 1 6	

French's Poultry Mustard. 100 lbs. \$19.00 50 lbs. \$9.75 25 lbs. \$5.00 10 lbs. \$2.00 5 lbs. \$1.05 3 lbs. 65c. 1½ lbs. 35c.

Blatchford's Calf Meal. 1000 lbs. \$35.00 500 lbs. \$18.75 100 lbs. \$4.00 50 lbs. \$2.25 25 lbs. \$1.25 ABOUT BAGS:-When 25-lb. or 50-lb. lots are ordered, there will be an extra charge of 10c each for bags.

PIGEO	N FE	EDS				(M)
Purina Pigeon Feed 7lbs.	25c.	15 lbs.	50c.	100 lbs.	\$2.50	0 000
King Pigeon Feed 7 lbs.	25c.	15 lbs.	50c.	100 lbs.	2.40	
Russian Hemp 4 lbs.	25c.	8 lbs.	45c.	100 lbs.	3.50	/*******
Canada Pigeon Peas		6 lbs.	25c.	100 lbs.	3.90	0000000
Kaffir Corn, white recleaned 5 lbs.	15c.	10 lbs.	25c.	100 lbs.	2.10	
Pigeon Millet, large 6 lbs.	25c.	13 lbs.	50c.	100 lbs.	2.50	PURINA
Hard Wheat, recleaned 7 lbs.	25c.	15 lbs.	50c.	100 lbs.	2.50	SCRATCH
Vetches 4 lbs.	25c.	8 lbs.	45c.	100 lbs.	4.35	FEED CO
Tick Beans 3 lbs.	25c.	10 lbs.	75c.	100 lbs.	7.00	TO LEED TO
Foust's Health Grit 5 lbs.	15c.	10 lbs.	25c.	100 lbs.	1.90	
Mica Pigeon Grit10 lbs.	10c.	50 lbs.	45c.	100 lbs.	- 65	
Oyster Shells for Pigeons10 lbs.	10c.	50 lbs.	45c.	100 lbs.	65	
Tobacco Stems 5 lbs.	15c.	per bale	of about	150 lbs.	1.50	
Rock Salt10 lbs.	10c.	100 lbs.	85c.	Bags	10c.	

PURE SEEDS FOR BIRDS

Canary Seed, recleaned....10c. per lb. 3 lbs. 25c. Hemp Seed, recleaned......10c. per lb. 3 lbs. 25c. Rape Seed, recleaned.....10c. per lb. 3 lbs. 25c. Lettuce Seed, recleaned....20c. per lb. 3 lbs. 50c. Sunflower Seed, recleaned. 10c per lb. 4 lbs. 25c.
Millet Seed, recleaned. 10c per lb. 3 lbs. 25c.
Bird Gravel 3 lb. package 10c. Cuttle Bone 5c. per oz. per lb. 40c.

Above quotations represent market values at time of going to press. Send us an estimate of your wants in larger quantities for special prices.

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ORDER SHEET.

THE J. M. McCULLOUGH'S SONS CO., Cincinnati, O. 316 Walnut Street, Between Third and Fourth Streets.

Price

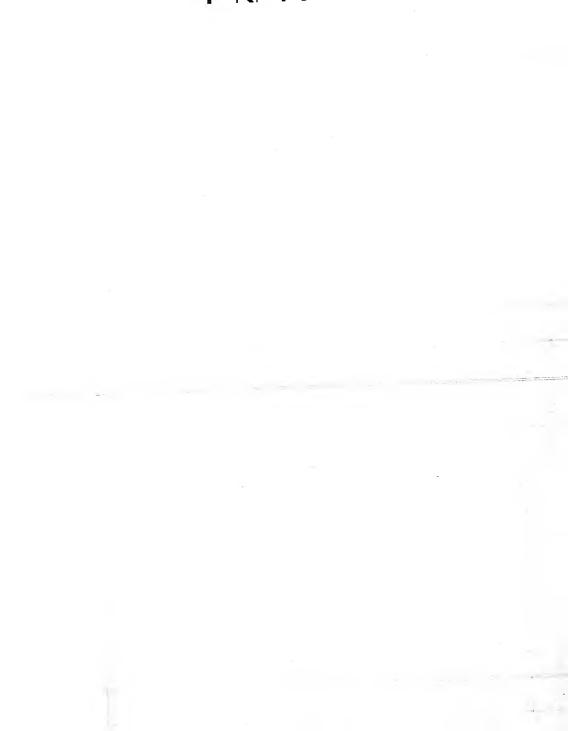
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Quantity

Price

Name of Article Wanted

Quantity



FROM

The J. M. McCullough's Sons Co.,

SEED MERCHANTS, No. 316 Walnut Street,

CINCINNATI, OHIO.



The "MARION HAYWARD" PEACH



Resplendent Color

Delightful Flavor

Flesh, Yellow

Surface, Uniform

Weighs about onehalf a pound

Character, Freestone

Little Fuzz

Foliage, Generous

Foreword

The original "Marion Hayward" peach tree sprouted from a pit carelessly thrown away and carried to the ash dump on the ground of the grower at 2620 Alms Place, Cincinnati, Ohio. From there it was taken in the Fall of the same year and planted in the ordinary clay soil of the Cincinnati hills in a more favorable locality. Four years later it began to bear fruit which has uniformly, year by year, been of the same quality, color and size. The foliage is so dense and luxuriant that it has the virtue of a lawn shade tree. The colored print was made in water color by Albert C. Marsh, 1226 First Avenue, Price Hill, Cincinnati, the United States Department of Agriculture refusing an official copy of its painting. The print is in actual colors and size, made by the artist from the fruit. The name breathes a romance.

MARION HAYWARD ORCHARD BRACKEN COUNTY, KY.

For Sale by

THE J. M. McCullough's Sons Co.

SEEDSMEN

Telephone, Main 4598.

316 Walnut Street, CINCINNATI, OHIO.

THE NEW PEACH

"Marion Hayward"

Originator, W. W. SYMMES, 2620 Alms Place, Cincinnati, Ohio.

Grown by

MARION HAYWARD ORCHARD

First Exhibited at Carthage, Ohio, Fair, 1910.

Orders for trees for Fall and Spring planting now taken. Price, \$1.00 each, \$10.00 per dozen, \$40.00 per fifty, or \$70.00 per hundred.

Dynamiting done for orchard planting.

The "Marion Hayward" peach has been described and tested by the United States Department of Agriculture.

UNITED STATES DEPARTMENT OF AGRICULTURE

Mr. W. W. Symmes,

2620 Alms Place, Cincinnati, Ohio.

Washington, D. C., August 18, 1910.

Dear Sir—Your letter of the 14th and the peach specimens, referred to therein, have both been received. I am advised by our Mr. W. N. Irwin, Assistant Pomologist, that the fruit closely resembles the "Chairs." The specimens were not in most satisfactory condition. It is a handsome peach of good form and size, and would expect on older trees the quality would improve. It would be a safe thing to test this variety in small orchards from three to five acres. The variety is of Persian origin, and it would, therefore, be worth while trying in almost any of our commercial peach sections, such as Delaware, Maryland, Georgia, Michigan, California, and probably New Mexico. We are not able to state the weight of the specimens, as we did not weigh them. We would like specimens sent from different localities, and get colored paintings made of this variety. I would not venture an opinion on its shipping qualities until we have an opportunity to test it.

Yours truly,

A. V. STEUBENRAUCH,

Expert in charge of Fruit Transportation and Storage Investigation.

UNITED STATES DEPARTMENT OF AGRICULTURE BUREAU OF PLANT INDUSTRY

Washington, D. C., September 23, 1911.

Mr. W. W. Symmes, Cincinnati, Ohio.

Dear Sir— * * The peach is undoubtedly a seedling, and as to classification the cross section is roundish; size, large to very large; dimensions, $3 \times 2 \% \times 2 \%$ inches; cavity, regular; size, medium deep; slopes, acute; sulture, very shallow; surface, even, regular; color, yellow overspread with crimson blush; flesh, yellow, red streaked from stone; texture, even grain; stone, ovate, oblique; quality of the fruit, good to very good; flavor, mild subacid with a slight touch of amygdalin, but pleasant and rich. We have had an illustration and description of the variety made for record in this office.

Yours very truly,

G. B. BRACKETT, Pomologist.

The Hamilton County Agricultural Society

D. L. SAMPSON, SECRETARY

ROOM 11, WIGGINS BLOCK, S. E. COR. FIFTH AND VINE STS.

TELEPHONE, MAIN 54

TO WHOM IT MAY CONCERN:

Cincinnati, Ohio, September 3, 1910.

This is to certify that W. W. Symmes, of Cincinnati, Ohio, exhibited at the Hamilton County Fair, Carthage, Ohio, a plate of peaches known as the "Marion Hayward" Peach, which was grown by him, and was awarded first premium, being a peach of the finest color and flavor, and largest in size of any peach exhibited at the Fair.

Yours respectfully,

Seal. of the Hamilton County Agricultural Society.

D. L. SAMPSON, Secretary.

Paragon Sprayers

For Tree Spraying, Whitewashing and Water Painting PARAGON SPRAYERS WON'T CLOG



Pat. Aug. 11, 1908, Feb. 16 and March 2, 1909.

The J. M. McCullough Sons Co., Seedsmen,

316 Walnut Street,

Cincinnati, O.

Paragon Sprayers

For Whitewashing, Water Painting and Tree Spraying

PARAGON SPRAYERS WON'T CLOG



Patented Aug. 11, 1908, Feb. 16 and March 2, 1909.

Its Advantages Over Other Machines

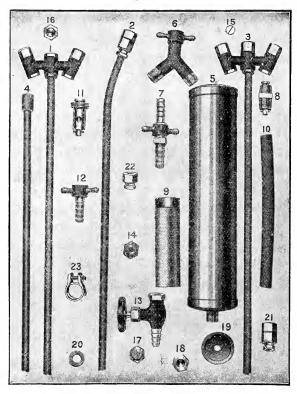
This is the only machine in the market that works satisfactorily for several purposes. It is positively a firstclass whitewashing as well as tree spraying machine. One of the very important features is that the spraynozzle can not clog, no matter how gritty or dirty the liquid is that is being sprayed. All liquid passes through the automatic self-cleaning strainer before entering pump, and therefore cannot clog the nozzle when spraying. The strainer won't clog or choke as the agitator passes over it with each stroke of the pump, dislodging any articles the suction may draw on its surface. feature is very good and should not be overlooked, as straining liquid, whitewash in particular, is a slow and disagreeable task, and is eliminated by using this sprayer. This feature also permits the use of a nozzle with a very small opening, thereby covering the greatest surface with the least possible amount of spraying solution, making this the most economical sprayer. This feature is original and only used on the PARAGON.

This machine is easily operated by one man, and can be brought in close proximity with the work, eliminating the use of a long expensive hose.

The nozzle makes a most beautiful mist-like spray

and does not drip.

A heavy, steady pressure is easily attained, the air chamber being of sufficient size and strength and is made of seamless brass tubing. The reservoir is made of heavy sheet iron well galvanized. All essential fittings and valves are made of brass and are giving thorough satisfaction. The hose is 6-ply of best quality. The strainer is made of heavy perforated brass and is strong and durable. The pump frame is well ribbed to prevent breakage and is easily removed from tank for cleaning. By pumping water through machine after using, the entire mechanism is easily cleaned. Simplicity, durability and satisfaction are guaranteed, and thousands are now in use.



FITTING FOR PARAGON SPRAYERS. These Fittings can be obtained from any dealer.

These Fittings can be of	camed from any dealer.
Figure Price	Figure Price
1. 2-way Spray with 2½ ft. pipe .1.25	13. Stop cock
2.1-way	14. Straight spray nozzle
2. 1-way	15. Breaker for mist spray nozzle .15
4. Exten. pipes 21/2 & 5 ft. per ft10	15. Breaker for mist spray nozzle 116. Brass cap " " 15
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8. Nipple valve under air cham30	per doz., .10
9. Strainer	21. Mist spray with sleeve and
10. % 6-ply spray hose, per ft	bushing40
11. Cheek valve for supply pipe30	22. Sleeve and bushing
12. Female hose fitting	23. Hose band
-	



Paragon Sprayers



No. 0. 3 Gal. Net Price \$7.50

- EQUIPMENT 4 Feet 6-ply Hose.
- 3 Feet Spray Pipe. 2 Spray Nozzles.



No. 1. 6 Gal. Net Price \$10.00 EOUIPMENT

5 Feet 6-ply Hose. 5 Feet Spray Pipe. 2 Nozzles.

are always sold fully equipped with pipe, hose and nozzles, everything required ready for spraying.

All Paragon Sprayers are carefully tested before leaving the factory, so they never fail to work satisfactorily.

Paragon Sprayers are adapted to any spraying solution, and will positively spray whitewash and water paints without straining, and will not clog.

150 lbs. pressure are easily attained with these sprayers.

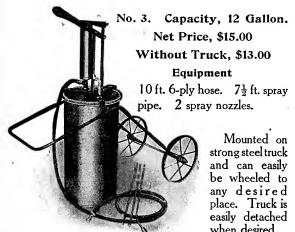
One season's increased production of fruit or one good job of whitewashing will pay many times the cost of a sprayer.

Every Paragon Sprayer is fully guaranteed, and should by chance any part prove defective, same will be immediately replaced free of charge.

Every statement made in this circular is the proven truth.

This cut of No. 1 Sprayer shows inside mechanical arrangement and patented selfcleaning strainer. No other sprayer can show this feature

PARAGON SPRAYERS PO

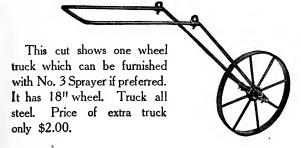


Mounted on strong steel truck and can easily be wheeled to anv desired place. Truck is easily detached when desired.

The above cut represents our most popular and best selling sprayer. Thousands are now in use and giving best of satisfaction.

Nos. 1 and 3 Sprayers can be furnished with solid all cast brass pumps for \$4.00 additional.

Spraying material can be furnished by your dealer, also formulas for mixing whitewash.



SPOSITIVELY CANNOT CLOG

allon.

ur and

e and

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dealer,



No. 4. Capacity, 28 Gal. Net Price, \$22.00

Not mounted on wheels, \$17.00

> Equipment 20 ft. 6-ply hose, 10 ft. spray pipe. 2 spraying nozzles.

This is a verv convenient sprayer, mounted on two strong 30" wheels.

This sprayer especially designed for spraying large buildings, but also suitable for spraying trees.

Whitewashing.

For whitewashing, water-painting and disinfecting it has no equal; just the thing for whitening and disinfecting factories, shops, warehouses, bakeries, dairy buildings, poultry houses, slaughter houses, attics, cellars, engine rooms, breweries, blind walls, etc. This sprayer is not one of the dirty kind that deposits as much liquid on the floor as it does on the ceilings and walls, and with proper handling does neat and effective work. With it you can reach the most difficult corners.

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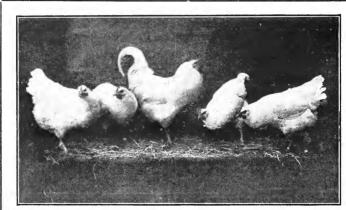
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